

MSRP PRICE & PRODUCT CATALOG



Land Mobile Radio Accessories

2170 Brandon Trail
Alpharetta, GA 30004
Toll Free 800.529.1618
Local 770-740-9400
www.powerproducts.com



DC / AC Power Supplies

15272 Newsboy Circle
Huntington Beach, CA 92649
Toll Free 800.854.3906
Local 714.751.0488
www.poweringthenetwork.com

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Reliable Energy For Dangerous Areas

Logic Energy intrinsically safe batteries are top quality products designed for safely powering your two-way radio in areas where combustible dusts, fibers, or gases exist. Solid engineering and adherence to rigorous assembly standards ensure that Logic Energy batteries will keep workers safe and their radios reliably powered. Key benefits include:

- Certified by SGS to TIA-4950 / CSA C22.2 No. 157 / UL 913 5th Edition standard for intrinsically safe and non-incendive use. (See back for additional information.)
- All models incorporate Japanese cells for optimal performance and longer cycle life.
- Use of flex boards and shock absorbing materials protect the battery if dropped or subjected to sudden impact.
- Excellent fit with specified radios and compatible with Endura, Logic, and OEM chargers.
- Belt clip included with applicable models.

For Kenwood Radios



LEKNB41MHIS
(Kenwood NX-210)



LEKNB40LIIS
(Kenwood NX-420)



LEKNBL2LIIS
(Kenwood NX-5400)

For Motorola Radios



LE4069LIIS
(Motorola XPR6550)



LE9857MHIS
(Motorola XTS2500)



LE4007MHXTIS
(Motorola XTS5000)

For Harris Radios



LE1912MHIS
(Harris P7100)



LE234366LIIS
(Harris XG-75P)

Authorized Dealer:

Specifications

Part Number	LE4069LIIS*	LE4007MHXTIS	LE9857MHIS	LE234066LIIS	LE1912MHIS
Radio Models (Partial Listing)	Motorola XPR6350 XPR6550	Motorola XTS3000, XTS3500 XTS5000	Motorola XTS1500, XTS2500, MT1500	Harris XG25P, XG75P, P5300, P7300	Harris P5100, P5200, P7100, P7200
Replacement For	PMNN4069	RNN4007	NTN9857	BT-023406-006	BKB191210/36
Cell Type	Li-Ion (Panasonic UR18650ZY)	NiMH (FDK HR-4/3AU)	NiMH (FDK HR-AU)	Li-Ion (Panasonic UR18650ZY)	NiMH (FDK HR-AU)
Capacity	2200 mAh	3500 mAh	2500 mAh	2500 mAh	2500 mAh
Voltage	7.4 V	7.5 V	7.5 V	7.4 V	7.5 V
Cycle Life	> 500	> 400	> 450	> 450	> 450
Weight	0.27 lbs / 123.0 g	0.81 lbs / 376.4 g	0.63 lbs / 285.8 g	0.34 lbs / 154.2 g	0.56 lbs / 254.0 g
Dimensions	5.07" x 2.13" x 0.89" 128.8 x 54.0 x 22.6 mm	6.17" x 2.36" x 0.93" 156.7 x 59.9 x 23.9 mm	4.84" x 2.32" x 0.98" 122.9 x 58.9 x 24.9 mm	4.52" x 2.44" x 1.01" 114.8 x 62.0 x 25.7 mm	4.65" x 2.35" x 0.94" 118.1 x 59.7 x 23.9 mm
Belt Clip	Included	Included	Included	Included	N/A
Rating	IP64	IP60	IP60	IP64	IP60
Certification	A	B	B	E	B

Part Number	LEKNB40LIIS	LEKNB41MHIS	LEKNBL2LIIS
Radio Models (Partial Listing)	Kenwood NX220, NX320, NX420	Kenwood NX210, NX410, TK5210, TK5310	Kenwood NX5200, NX5300, NX5400
Replacement For	KNB-68LC	KNB-41NC	KNB-LS5
Cell Type	Li-Ion (Panasonic NCA103450)	NiMH (FDK HR-4/5AU)	Li-Ion (Panasonic UF553450Z)
Capacity	1900 mAh	2500 mAh	3400 mAh
Voltage	7.4 V	7.2 V	7.4 V
Cycle Life	> 500	> 450	> 450
Weight	0.28 lbs / 127.0 g	0.58 lbs. / 263.1 g	0.42 lbs. / 190.5 g
Dimensions	3.95" x 2.21" x 0.89" 100.4 x 56.0 x 22.5 mm	4.64" x 2.25" x 0.92" 117.9 x 57.2 x 23.4 mm	4.59" x 2.28" x 1.11" 116.5 mm x 57.9 mm x 28.2 mm
Belt Clip	N/A	N/A	N/A
Rating	IP64	IP64	IP67
Certification	A	C	D



Certified by SGS to TIA-4950 / CSA C22.2 No. 157 / UL 913 5th Edition standard for intrinsically safe and non-incendive use as referenced.

(A) LE4069LIIS / LEKNB40LIIS - Intrinsically safe use (Class I, II, III / Division 1 / Groups C-G / -20° C to 40° C, T3C) and non-incendive use (Class I, II, III / Division 2 / Groups A-G / -20° C to 40° C, T3C).

(B) LE4007MHXTIS, LE9857MHIS, LE1912MHIS - Intrinsically safe use (Class I, II, III / Division 1 / Groups C-G / -20° C to 40° C, T3C) and non-incendive use (Class I / Division 2 / Groups A-D / -20° C to 40° C, T3C).

(C) LEKNB41MHIS - Intrinsically safe use (Class I, II, III / Division 1 / Groups C-G / -20° C to 40° C, T3) and non-incendive use (Class I, Division 2, Groups A-D / -20° C to 40° C, T3).

(D) LEKNBL2LIIS - Intrinsically safe use (Class I, II, III / Division 1 / Groups A-G / -20° C to 60° C, T3B) and non-incendive use (Class I, II, III / Division 2 / Groups A-G / -20° C to 60° C, T3B).

(E) LE234066LIIS - Intrinsically safe use (Class I, II, III / Division 1 / Groups A-G / -20° C to 60° C, T4) and non-incendive use (Class I, II, III / Division 2 / Groups A-G / -20° C to 60° C, T4).

*Not compatible with XPR6580 IS CSA.



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INTRINSICALLY SAFE BATTERIES

FM To TIA-4950 Transition

Frequently Asked Questions

Why can't I get FM batteries anymore?

The previous LMR industry standard for intrinsically safe (IS) batteries was FM3610_88 and it expired in 2012. As a result, manufacturers had to stop producing FM3610_88 certified IS batteries as of December 31, 2015. FM did this to encourage adoption of their FM3640 standard which harmonized several IS standards (mostly IEC) from around the world with the goal of simplifying global trade. However, FM3640 required numerous changes to product design that were either too expensive or simply not viable for the U.S. radio market. For example, FM3640 imposed a lower maximum transmit power level for radios which caused a reduction in area coverage of more than 20%. In 2013 FM introduced yet another standard, FM3610_10, that offered some compromise but failed to gain any LMR industry acceptance.

How do the TIA-4950 and FM3610_88 standards compare?

To overcome the drawbacks of the FM3640 standards described above, the Telecommunications Industry Association (TIA) acquired rights to UL 913 5th Edition and created a competing IS standard specifically for LMR equipment, published by ANSI as ANSI / TIA-4950-2013. This TIA-4950 standard is very similar to the FM3610_88 standard by design. For example, FM3610_88 and TIA-4950 both use the same hazardous location (hazloc) classifications as defined by the NEC ANSI / NFPA 70 standard. This ensures that the TIA-4950 certified product's hazloc ratings system (Class / Division / Group) is identical to the FM hazloc rating system used by the AHJ (Authority Having Jurisdiction) at the user's environment. At the same time and by design, TIA-4950 is also more stringent than FM3610_88, at least with respect to spark assessment as described in below.

What are the hazloc classifications used by both FM3610_88 and TIA-4950?

The hazloc classifications are defined by Class, Division, and Group as summarized below. An IS battery certified under FM3610_88 or TIA-4950 with the same Class, Division, and Group rating would be safe to use in the environment for which it was rated.

CLASS	Class I – Flammable gases, vapors, or liquids. Class II – Combustible dust. Class III – Ignitable fibers / flyings.
DIVISION Area Classifications	Division 1 – Locations where ignitable gas, vapor, liquid, or dust are present continuously or some of the time under normal operating conditions. Division 2 – Locations where ignitable gas, vapor, liquid, or dust are not likely to exist under normal operating conditions.
GROUP Class I Gas Groups	Group A – Acetylene and equivalent gas groups. Group B – Hydrogen and equivalent gas groups. Group C – Ethylene and equivalent gas groups. Group D – Methane, and equivalent gas groups.
GROUP Class II Dust Groups	Group E – Conductive dust (mechanical, e.g. recyclers). Group F – Combustible carbon dust above ground only (e.g. charcoal, coke). Group G – Grain dust.
GROUP Class III Fiber Groups	No sub-groups for fibers.



Can a TIA-4950 battery be used as a replacement on FM certified radios?

The FM3610_88 standard defines a “system” certification. This means the radio and battery are tested and certified together. To address the need for a certified battery once FM certified batteries were no longer available, TIA-4950 was made more stringent than FM3610_88 by adding a 1.5x safety margin to the spark assessment testing specification. This ensures a TIA-4950 battery certified “standalone” can safely replace a system certified FM battery, given its hazloc ratings are the same or better. Consequently, LMR manufacturers now routinely offer TIA-4950 certified batteries as replacements for obsolete FM batteries. Power Products follows this practice in offering a line of TIA-4950 certified batteries.

Have Power Products batteries certified to FM3610_88 been recertified to TIA-4950?

Yes, LE1912MHIS (Harris P7100), LE9857MHIS (Motorola XTS2500), and LE4007MHXTIS (Motorola XTS5000) were originally certified to FM3610_88. Effective January 1, 2016 Power Products began selling these same batteries after recertification to TIA-4950 by SGS. These batteries have been purchased by many customers and used on FM certified radios with no issues since introduction in 2016.

Are there any differences between TIA-4950 batteries certified by SGS or UL?

UL and SGS are both nationally recognized testing laboratories (NRTLs).

The federal agency responsible for recognizing NRTLs is OSHA. Being recognized by OSHA allows NRTLs to test and certify products to safety specifications published by standards writing bodies (such as ANSI) once the NRTL has gained accreditation for that standard. Since both SGS and UL are accredited for TIA-4950 (an ANSI standard), SGS and UL markings are recognized by OSHA as completely equivalent indications of a product's compliance to the ANSI-TIA-4950 standard.

My FM radio will not accept a Motorola UL battery. Will it work with a Power Products IS battery?

Some Motorola FM radios incorporate firmware which detects the Motorola UL battery and will not power up. Our customers report they do not encounter the same issue when using a Power Products battery.

What intrinsically safe batteries does Power Products offer?

Power Products currently offers SGS certified intrinsically safe batteries for the radios listed below. A copy of the certification is available upon request.

What if I need a battery that isn't listed?

Reach out to your Power Products representative and we can discuss having the battery certified.

Icom	L3Harris	Kenwood	Motorola
IC-F3161 – LE232LIIS	P7100 – LE1912MHIS XG-75 – LE234066LIIS XL-200P – in development	NX-210 – LEKNB41MHIS NX-3200 – LEKNB40LIIS NX-5000 – LEKNBL2LIIS	XTS2500 – LE9857MHIS XTS5000 – LE4007MHXTIS XPR6000 – LE4069LIIS APX6000 – in development XPR3000 / XPR7000 – in development



Intrinsically safe two-way radio batteries by



A MISSION CRITICAL ELECTRONICS BRAND

Batteries powered by PolyMax HPC LiPo cells are best-in-class products that feature high capacity and these important benefits:

- Longer runtimes compared to other two-way radio battery options.
- Greater cycle life compared to Li-Ion cells (500+ vs. 300).
- Significantly lighter weight compared to NiMH batteries with similar capacity.
- Self-discharge rate of less than 5% per month, which is one third that of NiMH batteries.
- Solid construction and quality fit with radio.
- Extended warranty – 24 months for capacity (80%) and 24 months for materials and workmanship.
- Can be charged using Endura, Logic, or OEM chargers designed for Li-Ion batteries.

For Kenwood Radios



PMKNB78LIP
3000 mAh
(Kenwood NX-3220)



PMKNB57LIP
3500 mAh
(Kenwood TK-3170)



PMKNB43LIP
4100 mAh
(Kenwood TK-3180)



PMKNB48LIP
3500 mAh
(Kenwood NX-300G)

For Motorola Radios



PM9013LIP
4100 mAh
(Motorola HT1250)

PM8299LIPXT
4600 mAh
(Motorola XTS5000)



PM9858LIPIC
4100 mAh/Smart
(Motorola XTS2500)



PM4487LIPIC
4900 mAh/Smart
(Motorola APX6000)



PM4486LIPIC
3400 mAh/Smart
(Motorola APX6000)



PM1912LIP
4100 mAh
(Harris P7100)

For Harris Radios

Authorized Dealer:

Specifications – PolyMax HPC Batteries

Part Number	PM234361LIP	PM1912LIP**	PMKNB78LIP	PMKNB57LIP	PMKNB43LIP
Radio Models (Partial Listing)	Harris P5300, P5400, P7300, XG25P, XG75P	Harris P5100, P5200, P7100, P7200	Kenwood NX3200, NX3220, NX3300, NX3320	Kenwood NX220, NX320, TK2170, TK3170, TK3360	Kenwood NX210, NX410, TK2180, TK3180, TK5210
Replacement For	BT-023436-001	BT-01942-001 HMA 2104-LIP**	KNB-78L	KNB-57L	KNB-43L
Cell Type	PolyMax HPC	PolyMax HPC	PolyMax HPC	PolyMax HPC	PolyMax HPC
Cell Chemistry	LiPo	LiPo	LiPo	LiPo	LiPo
Capacity	4100 mAh / 30.3 Wh	4100 mAh / 30.3 Wh	3000 mAh / 22.2 Wh	3500mAh / 25.9 Wh	4100 mAh / 30.3 Wh
Voltage	7.4 V	7.4 V	7.4 V	7.4 V	7.4 V
Cycle Life	> 500	> 500	> 500	> 500	> 500
Battery Life*	>18 hrs P7300 (UHF)	>21 hrs P7100 (IP)	>20 hrs NX3320	>20 hrs NX320	>22 hrs TK2180
Weight	0.44 lbs / 201.5 g	0.41 lbs / 186.0 g	0.31 lbs / 140.6 g	0.35 lbs / 158.7 g	0.42 lbs / 189.5 g
Dimensions (LxWxD)	4.52" x 2.44" x 1.01" 114.8 x 62.0 x 25.7 mm	4.65" x 2.35" x 0.94" 118.1 x 59.7 x 23.9 mm	3.96" x 2.21" x 0.71" 100.6 x 56.2 x 17.9 mm	3.93" x 2.21" x 0.87" 99.7 x 56.1 x 22.1 mm	4.64" x 2.27" x 0.93" 117.9 x 57.7 x 23.6 mm
Belt Clip	Included	N/A	N/A	N/A	N/A
Warranty	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship

PMKNB48LIP	PM9013LIP	PM8299LIPXT	PM9858LIPIC	PM4486LIPIC	PM4487LIPIC
Kenwood NX200, NX300, TK5220, TK5320	Motorola HT750, HT1250, PR860	Motorola XTS3000, XTS3500, XTS5000	Motorola XTS1500, XTS2500, MT1500, PR1500	Motorola APX6000, APX7000, APX8000	Motorola APX6000, APX7000, APX8000
KNB-48L	HNN9013DR	N/A	PMNN4495	PMNN4486	PMNN4487
PolyMax HPC	PolyMax HPC	PolyMax HPC	PolyMax HPC	PolyMax HPC	PolyMax HPC
LiPo	LiPo	LiPo	LiPo	LiPo	LiPo
3500 mAh / 25.9 Wh	4100 mAh / 30.3 Wh	4600 mAh / 34.0 Wh	4100 mAh / 30.3 Wh	3400mAh / 30.3 Wh	4900mAh / 36.3 Wh
7.4 V	7.4 V	7.4 V	7.4 V	7.4 V	7.4 V
> 500	> 500	> 500	> 500	> 500	> 500
>19 hrs NX200G	>19 hrs (HP) >31 hrs (LP) HT1250	>22 hrs XTS5000 (digital / VHF)	>19 hrs XTS2500 (digital)	>15 hrs (HP) APX6000	>21 hrs (HP) APX6000
0.37 lbs / 167.8 g	0.45 lbs / 202.0 g	0.52 lbs / 237.0 g	0.45 lbs / 204.1 g	0.36 lbs / 163.3 g	0.54 lbs / 244.9 g
4.15" x 2.29" x 1.05" 105.4 x 58.2 x 26.7 mm	4.84" x 2.34" x 0.98" 122.9 x 59.4 x 24.9 mm	6.17" x 2.36" x 0.93" 156.7 x 59.9 x 23.9 mm	4.84" x 2.32" x 0.98" 122.9 x 58.9 x 24.9 mm	3.41" x 2.36" x 1.66" 86.6 x 60.0 x 42.2 mm	5.39" x 2.34" x 1.57" 136.8 x 59.4 x 39.9 mm
N/A	Included	Included	Included	N/A	N/A
24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship	24 months – capacity (80%) 24 months – materials & workmanship

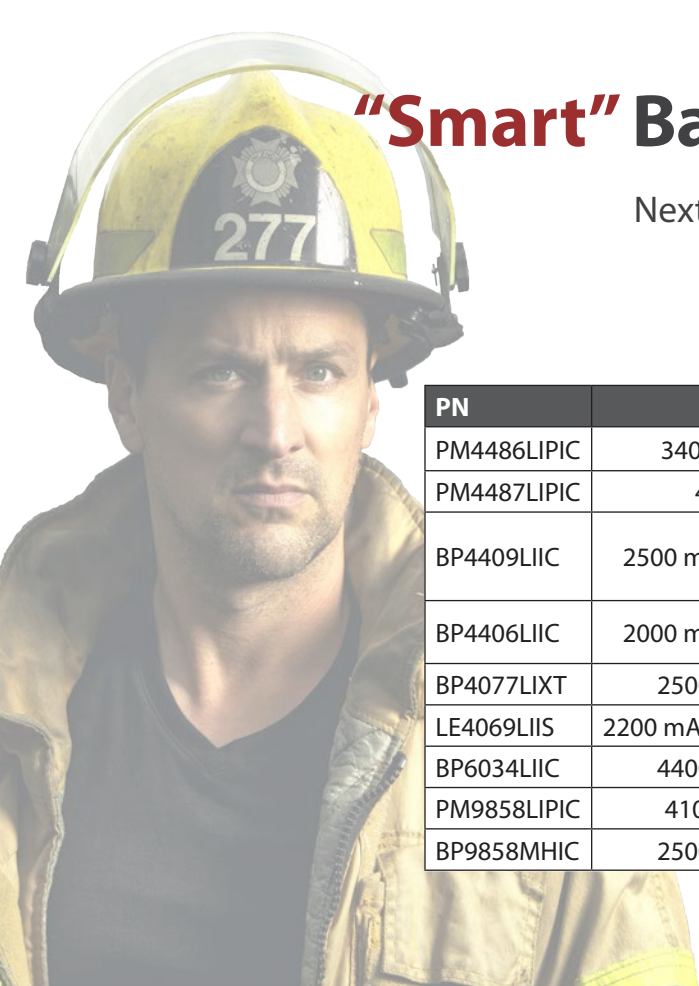
*Battery life based on 5-5-90 duty cycle. **PM1912LIP-P710X replaces HMA2104-LIP (GTS).

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PolyMax HPC Batteries By Power Products
Lithium Polymer • Maximum Energy

Toll Free: **800-529-1618**
www.powerproducts.com



"Smart" Batteries By Power Products

Next-generation two-way radio batteries designed to keep you *protected, informed and powered longer.*

PN	Battery Info	Warranty	Radio Reference
PM4486LIPIC	3400 mAh / LiPo / IP68	24 months	APX6000, APX7000, APX8000
PM4487LIPIC	4900 mAh / LiPo	24 months	
BP4409LIIC	2500 mAh / Li-Ion / IP67 / clip	12 months	APX900, APX1000, APX3000, APX4000, XPR3300e, XPR3500e, XPR7350e, XPR7380e, XPR7550e, XPR7580e
BP4406LIIC	2000 mAh / Li-Ion / IP68 / clip	12 months	XPR3300, XPR3500, XPR7350, XPR7380, XPR7550, XPR7580
BP4077LIXT	2500 mAh / Li-Ion / clip	12 months	XPR6100, XPR6300, XPR6350, XPR6380, XPR6500, XPR6550, XPR6580
LE4069LIIS	2200 mAh / Li-Ion / IP64 / IS / clip	12 months	
BP6034LIIC	4400 mAh / Li-Ion / clip	12 months	XTS3000, XTS3500, XTS5000
PM9858LIPIC	4100 mAh / LiPo / clip	24 months	XTS1500, XTS2500, MT1500, PR1500
BP9858MHIC	2500 mAh / NiMH / clip	12 months	

Information Displayed When Charging PM4486LIPIC *

BATTERY RECOGNITION

Shows part number, chemistry, serial number (not shown), and IMPRES™ compatibility.



RAPID CHARGING

Shows status (RAPID CHARGE) and current state of charge.



CONDITIONING

Shows status (DISCHARGE) and current state of discharge.



* Shown for IMPRES™ 1 charger (WPLN4127AR). With IMPRES™ 2 charger (NNTN8844) the state of charge and discharge are not displayed.

PN: PM4486LIPIC

For Motorola APX6000, APX7000, APX8000. Replaces Motorola PMNN4486.

Compatible with IMPRES™ 1 and IMPRES™ 2 chargers.

Also compatible with Endura ECxV3 models – desktop and in-vehicle. (When used with Endura chargers, remember to condition IMPRES™ batteries in an IMPRES™ charger every 30 days to maintain functionality of the battery level display shown on an APX radio.)

Provides same features as IMPRES™ 1 battery models.

Motorola™ and IMPRES™ are trademarks or registered trademarks of Motorola Trademark Holdings.



PM4486LIPIC



Toll Free: 800-529-1618 • Local: 770-740-9400 • www.powerproducts.com

Primary Lithium Batteries

Batteries powered by PolyMax HPC LiPo cells are best-in-class products that feature high capacity and these important benefits:

- Longer runtimes compared to other two-way radio battery options.
- Greater cycle life compared to Li-Ion cells (500+ vs. 300).
- Significantly lighter weight compared to NiMH batteries with similar capacity.
- Self-discharge rate of less than 5% per month, which is one third that of NiMH batteries.
- Solid construction and quality fit with radio.
- Extended warranty – 24 months for capacity (80%) and 24 months for materials and workmanship.

For Harris Radios



BP234065PL
XG-15P, XG-25P, XG-75P
3000 mAh / Li-MnO₂



BP1912PL
P7100, P7200
3000 mAh / Li-MnO₂

For Motorola Radios



BP7034PLPU
APX6000, APX7000, APX8000
4500 mAh / Li-MnO₂



PM9013LIPIC
HT750, HT1250, HT1550
4500 mAh / Li-MnO₂



BP8299PLPU
XTS3000, XTS3500, XTS5000
4500 mAh / Li-MnO₂

For Kenwood Radios



BPKNB49PL
NX210, NX410, TK2180
4500 mAh / Li-MnO₂



PRIMARY LITHIUM

Emergency Two-Way Radio Batteries



Non-rechargeable batteries provide emergency power when charging isn't an option.

Part Number	Radio Reference	Capacity
BPKNBL2PL	Kenwood NX5200, NX5300, NX5400, VP5000, VP6000	4500 mAh
BPKNB49PL	Kenwood NX210, NX410, TK2180, TK3180	4500 mAh
BP7034PLPU	Motorola APX6000, APX7000, APX8000	4500 mAh
BP9858PL	Motorola XTS2500, XTS1500, MT1500, PR1500	4500 mAh
BP8299PLPU	Motorola XTS3000, XTS3500, XTS5000	4500 mAh
BP9009PL	Motorola HT750, HT1250, HT1550	4500 mAh
BP234065PL	L3Harris XG-15P, XG-25P, XG-75P	3000 mAh
BP1912PL	L3Harris P7100, P7200	3000 mAh

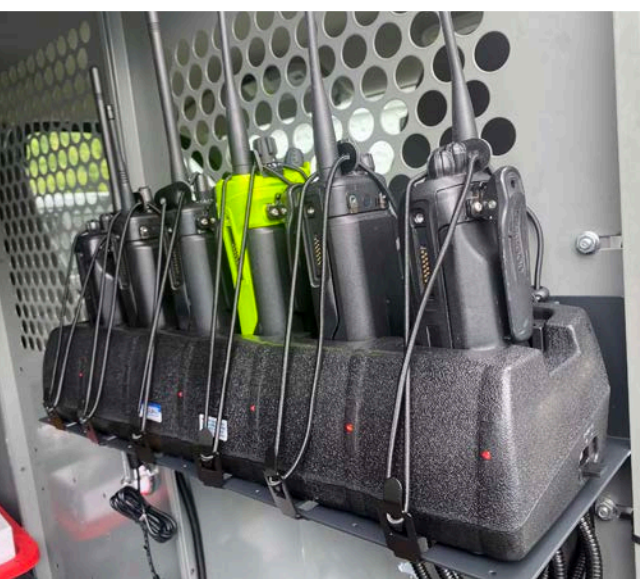
- Ten-year shelf life with proper storage.
- Uniquely colored housing available for instant ID.
- Lightweight and durable construction.
- Belt clip available for applicable models.
- Contact us for order lead time.



Toll Free: **800-529-1618**

Local: **770-740-9400**

www.powerproducts.com



Charging Solutions For Professionals™

- Fire, rescue, and emergency services.
- Police and law enforcement.
- Railroad maintenance and utility service.
- Forestry and natural resource preservation.
- Gas, oil, and mining operations.



POWER *on the* MOVE



ENDURA™

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Alpharetta, GA 30004

www.powerproducts.com

IN-VEHICLE CHARGERS For Two-Way Radios

Endura Chargers by

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A MISSION CRITICAL ELECTRONICS BRAND

IN-VEHICLE CHARGERS FROM POWER PRODUCTS

A charging solution for any mobile application.

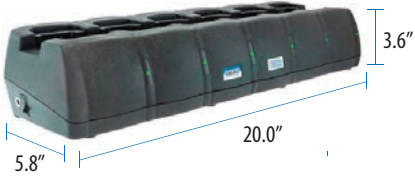
Ideal for fire, emergency, and utility service vehicles, or any installation that needs a proven in-vehicle charging solution.



Endura chargers are highly reliable and a top choice among communications and public safety professionals. All EC models charge Li-Ion, LiPo, NiMH, or NiCd batteries based on pod selected and can be powered from a 12V or 24V source.

KEY FEATURES

- Radio may stay powered on while charging.
- EC models utilizes replaceable pods allowing the charger to be updated for future use and with multiple radio models or brands. (Visit www.powerproducts.com for over 100 available pods.)
- Available for most radio brands including Motorola, Kenwood, Harris, Hytera, Icom, Maxon, BK Technologies, Tait, Vertex Standard and others.
- Provides cold and hot battery monitoring and other important battery warnings.

	Power Connection Accessories	Floor or Wall Mount	AMPS 4-Hole Pattern	Allows Pod Mix	Mounting Bracket
EC1M Single Unit 	• VPA (TWC1M-VPA) <i>Included</i> • Hardwire (TWC6M-HW) <i>Optional</i>			N/A	Included (EC1M-MBHD)
EVC Single Unit 	• Hardwire (EVC-HW) <i>Included</i> • VPA (EVC-VPA) <i>Optional</i>			N/A	Optional (LEVCA-M) (LEVCA-MBH)
EC2M Dual Unit 	• AC Power Supply <i>Included</i> • VPA (TWC6M-VPA) <i>Optional</i> • Hardwire (TWC6M-HW) <i>Optional</i>			N/A	Optional (EC2M-MB)
EC6M Six Unit 	• AC Power Supply <i>Included</i> • VPA (TWC6M-VPA) <i>Optional</i> • Hardwire (TWC6M-HW) <i>Optional</i>		N/A		Optional (EC6M-MB)
EC12M Twelve Unit 	• AC Power Supply <i>Included</i> • Hardwire (TWC6M-HW) <i>Optional</i>		N/A		Optional (EC6M-MB)



SPACE EFFICIENT
UNMATCHED DURABILITY
2-YEAR WARRANTY



The compact, versatile, and rugged design makes the EVC 4-unit charger the perfect solution for fire, emergency, and service vehicles and may be configured with any mix of EVC models.

- NFPA compliant for in-cab install (tested to 9 g-force).
- Includes locking DC hardwire kit and secure tie-down strap with easy release.
- Available for Motorola, Kenwood, BK Technologies, L3Harris, and EFJ radios.



POWER *on the move*



Mobile Power Solutions For Two-Way Radios



AC or DC auto switching power supply
+ NATO receptacle (optional).



Portable charging station
for 12 or 24 radios.

- Rugged, wheeled Pelican 1650 enclosure.
- Includes adjustable tie-down straps to secure battery / radio while charging.
- Compatible with Li-Ion / LiPo / NiMH / NiCd batteries.
- Available for Motorola, Kenwood, L3Harris, Icom, Tait, and BK Technologies radios (models may be mixed).
- For complete specifications, visit www.powerproducts.com or scan the QR code.



PowerProducts
A MISSION CRITICAL ELECTRONICS BRAND

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Email sales@powerproducts.com



ENDURA™

EC1 • EC1M • EC6M EC Chargers - Single Pod

Smart Charging Solutions For Two-Way Radio Batteries

- All models charge Li-Ion, LiPo, NiMH, or NiCd batteries based on pod selected.
- Advanced charging technology prevents over-charging, while providing automatic recharging when radio remains powered on.
- Provides hot and cold battery monitoring (not available with V2 models).



Endura EC1

- Features compact footprint and ideal for desktop use.
- For added flexibility in placement, the charger may be positioned to view from the front or sides.
- Includes charging pod, AC to DC power supply, and user manual.



- Replaceable charging pod allows charger to be updated for future use with other radios. Pods available for popular radios from Motorola, Kenwood, Harris, Hytera, Icom, BK Technologies, Tait, Vertex Standard, and others.
- Special V3 models available for charging Motorola APX batteries with higher end voltage requirements (see V3 Models section on back).
- Certified to meet U.S. Department of Energy and California Energy Commission requirements for energy conservation.

Endura EC1M

- Designed for in-vehicle use and may be powered from a 12V or 24V outlet.
- Bracket design allows for mounting on a vertical or horizontal surface.
- Includes charging pod, mounting bracket with adjustable tie-down strap, vehicle power adapter, and user manual.



Endura EC6M

- Ultra-compact footprint measures only 20.8 inches x 5.8 inches.
- The six charging positions may be configured for a specific radio or six different radio models (see pod listing for exceptions).
- Includes six charging pods, AC to DC power supply, and user manual.
- Accessories available for in-vehicle use. EC6M features a custom designed DC socket for hardwire connection.

Authorized Dealer:



ENDURA Chargers by Power Products
Smart – Adaptable – Reliable™

Charging Pods For EC Chargers

Endura EC chargers utilize many different pods in order to charge hundreds of different two-way radios. The charging pods are replaceable, allowing the EC charger to be updated for future use with other radios. Most of the charging pods are compatible with EC1, EC1M, or EC6M. However, a few pods require an EC charger that is slightly different and those models are EC1-V2, EC1M-V2, and EC6M-V2. For a complete listing of pods available and the compatible EC charger, contact an authorized Power Products dealer or visit www.powerproducts.com.



V3 Models For Motorola APX Batteries

Designed specifically for Motorola APX6000 / 7000 / 8000 batteries, the EC1V3 / EC1MV3 / EC6MV3 incorporate a special charging pod (TWP-MT19T-D) and additional intelligence that ensure proper charging of batteries that have higher end voltage requirements. EC1V3 / EC1MV3 / EC6MV3 models offer the same standard features as EC1 / EC1M / EC6M, but because of the unique charging requirements of APX batteries, the V3 models are pod specific.

Part Number	Battery Compatibility
EC1V3-MT19T	Endura V3 models are compatible with Motorola APX6000 / 7000 / 8000 batteries, including those with a higher end voltage requirement.
EC1MV3-MT19T	
EC6MV3-MT19T	

Specifications

	EC1	EC1M	EC6M
Dimensions (W x L x H)	96 x 131 x 77 mm 3.8 x 5.2 x 3.0 inches	96 x 131 x 77 mm 3.8 x 5.2 x 3.0 inches	509 x 148 x 91 mm 20.0 x 5.8 x 3.6 inches
Weight (charger only)	0.25 kg / 0.55 lbs.	0.25 kg / 0.55 lbs.	1.4 kg / 3.1 lbs.
Compatible Chemistries (based on pod selected)	Li-Ion / LiPo NiMH / NiCd	Li-Ion / LiPo NiMH / NiCd	Li-Ion / LiPo NiMH / NiCd
Operating Temperature	0° C – 45° C 32° F – 113° F	0° C – 45° C 32° F – 113° F	0° C – 45° C 32° F – 113° F
Power Supply Input	100V – 240V AC 50 Hz – 60 Hz / 0.5A	N/A	100V – 240V AC 50 Hz – 60 Hz / 2.0A
Charger Input	15V DC / 1.0A (with TWC1-PS)	12V-24V DC / 1.0A (minimum)	12V-24V DC / 5.4A ^E (minimum)
Charge Rate ^A	900 mA (10.6V-13.5V)	900 mA (10.6V-13.5V)	900 mA (10.6V-13.5V)
Approvals	FCC ^B / BC ^C / DOE ^D / CE	FCC ^B / BC ^C / DOE ^D / CE	FCC ^B / BC ^C / DOE ^D / CE
Warranty	12 months	12 months	12 months

(A) Applies to EC1 / EC1M / EC6M. Charge rate for EC1-V2 / EC1M-V2 / EC6M-V2 is 700 mA. (B) Complies with FCC Rules, Part 15, Subpart B, Class B 2016, ANSI c63.4:2014. (C) Complies with California Energy Commission CEC-400-2011-005. (D) Complies with U.S. Department of Energy 10 CFR, Part 430, PC3 and 4. (E) Applies to EC6M. Charger input for EC6M-V2 is 4.8A (minimum). Specifications subject to change without notice.

Endura EC6M

The EC6M may be installed in a vehicle with the optional EC6M-MB mounting bracket shown below. The EC6M-MB has adjustable tie-down straps allowing taller or shorter radios to be properly secured. Using a vehicle power adapter (TWC6M-VPA) or hardwire kit (TWC6M-HW), the charger can be powered from a 12V or 24V source.



TWC6M-VPA

The TWC6M-VPA features a heavy duty coiled cord and is compatible with EC6M and EC1M.



TWPC6M-HW

The TWC6M-HW is the optional hardwire kit for EC6M and EC1M.



EC6M-MB

The EC6M-MB allows the EC6M to be wall or floor mounted and includes fasteners.



Endura EC1M

The EC1M includes the EC1M-MB mounting bracket and vehicle power adapter (TWC1M-VPA) shown below. The adjustable tie-down straps will properly secure radios of different heights or a battery only.

EC1M-MB

The EC1M-MB allows either floor or wall mounting and fasteners are included. When floor mounting, the two side flanges are attached to the main bracket



ENDURATM

EC2M • EC12M

EC Chargers – Dual Pod

Innovative Charging Solutions For Two-Way Radio Batteries

- EC2M and EC12M charge Li-Ion, LiPo, NiMH, or NiCd batteries based on pod selected.
- Advanced charging technology prevents over-charging, while providing automatic recharging when radio remains powered on.
- Provides hot and cold battery monitoring and other important battery alerts.
- Replaceable charging pod allows charger to be updated for future use with other radios. Pods available for popular radios from Motorola, Kenwood, Harris, Hytera, Icom, BK Technologies, Tait, Vertex Standard, and others.
- Special V3 models available for charging Motorola APX batteries with higher end voltage requirements (see V3 Models section on back).
- Certified to meet U.S. Department of Energy and California Energy Commission requirements for energy conservation.



Endura EC12M

- Rapid charges twelve batteries while on or off the radios.
- Ultra-compact footprint measures only 20.0 x 5.8 inches.
- Charging pods can be configured for a specific radio or six different radio models.
- Includes six dual charging pods, 100V – 240V AC to DC power supply, and user manual. Additional accessories listed on back.

Charging Pods

There are more than 25 unique pods that can be used in EC2M and EC12M to charge batteries for hundreds of different two-way radios. Pods are designed to hold two batteries while on or off a radio and are field replaceable making it easy to update the charger. For a complete listing of pods available, contact an authorized dealer or visit www.powerproducts.com.



Endura EC2M

- Rapid charges two batteries while on or off the radios.
- Separate LEDs confirm charge status of battery in front or rear position.
- Includes dual charging pod, 100V – 240V AC to DC power supply, and user manual.
- Accessories available for in-vehicle installation (see back).



Authorized Dealer:



ENDURA Chargers by Power Products

Smart – Adaptable – ReliableTM

Accessories For EC2M / EC12M

Part Number	EC2M	EC12M	Description
TWC2M-PS	•		Power supply (included).
EC2M-MB	•		Mounting bracket (for in-vehicle installation).
TWC6M-VPA	•		Vehicle power adaptor.
TWC6M-HW	•	•	Hardwire kit.
TWC12M-PS		•	Power supply (included).
TWC6M-PC		•	Power cord for TWC12M-PS (included).
EC6M-MB		•	Mounting bracket for office or in-vehicle applications.

V3 Models For Motorola APX Batteries

Designed specifically for Motorola APX6000 / 7000 / 8000 batteries, the EC2MV3 and EC12MV3 incorporate a special charging pod (TWP-MT19T-D) and additional intelligence that ensure proper charging of batteries that have higher end voltage requirements. The EC2MV3 / EC12MV3 models offer the same standard features as EC2M / EC12M, but because of the unique charging requirements of APX batteries, the V3 models are pod specific.



Part Number	Battery Compatibility
EC2MV3-MT19T-D	Endura V3 models are compatible with Motorola APX6000 / 7000 / 8000 batteries, including those with a higher end voltage requirement.
EC12MV3-MT19T-D	

Specifications

Part Number	EC2M	EC12M
Dimensions (W x L x H)	101 x 137 x 81 mm 3.9 x 5.4 x 3.2 inches	509 x 148 x 94 mm 20.0 x 5.8 x 3.7 inches
Weight (Charger Only)	0.32 kg / 0.7 lbs	1.63 kg / 3.6 lbs
Compatible Chemistries	Li-Ion / LiPo / NiMH / NiCd (based on pod selected)	Li-Ion / LiPo / NiMH / NiCd (based on pod selected)
Operating Temperature	15° C – 30° C / 59° F – 86° F	15° C – 30° C / 59° F – 86° F
Power Supply Input	100V – 240V AC / 50 HZ – 60 HZ / .58A	100V – 240V AC / 50 HZ – 60 HZ / 2.2A
Charger Input	12V – 24V DC / 1.6A	12V – 24V DC / 12.5A
Charge Rate	800 mA (10.6V – 13.5V)	800 mA (10.6V – 13.5V)
Approvals	FCC ^A / BC ^B / DOE ^C / CE	FCC ^A / BC ^B / DOE ^C / CE
Warranty	12 months	12 months

(A) Complies with FCC Rules, Part 15, Subpart B 2016. (B) Complies with California Energy Commission CEC-400-2011-005.

(C) Complies with U.S. Department of Energy 10 CFR, Part 430, PC3 and 4.

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Endura EC12M

The EC12M's small footprint makes it easy to charge a large number of radios when space is limited.



The optional **EC6M-MB** bracket allows EC12M to be wall or table mounted. Integrated and adjustable tie-down straps are provided for in-vehicle applications and allow 12 radios or 12 batteries to be secured.



Endura EC2M

The EC2M allows battery or radio placement in either front or rear position.



For in-vehicle use, EC2M can be mounted using **EC2M-MB** and powered from a 12V or 24V source using **TWC6M-VPA** or **TWC6M-HW**.





Motorola APX6000 In-Vehicle Charger

Rugged Single Unit Charger

EVC-MT19



For APX6000, APX6000XE, APX8000,
APX8000XE, SRX2200 radios
(available special order for APX7000, APX700XE).

- Tested to 9 g-force and NFPA compliant.
- Radio may stay powered on while charging.
- Properly charges OEM batteries with higher end voltage requirements, including PMNN4485, PMNN4486, PMNN4504, and PMNN4494.
- Includes DC hardwire cable and easy release tie-down strap.
- USB port for charging mobile phones or tablets.
- AMPS pattern with optional dash / floor mounting brackets available.

Housing Materials	ABS / PC blend with metal support frame
Contact Type	Custom design probe contact for fail-safe battery connection
Operating Temperature	0° C to 45° C / 32° F to 113° F
Charge Rate (Radio Battery)	800 mA
Compatible Chemistries	Li-Ion / LiPo / NiMH
Input Voltage (Minimum)	12V / 2.8A for charging device from USB port and radio battery
USB Charging Port	For Type A connector / 5V output / 2A charge rate
DC Power Cable (EVC-HW)	Included with EVC-MT19, 16AWG / 3m (9.8') length / secure 4-pin connector
Unit Dimensions (W x H x D)	2.6" x 5.3" x 3.1" / 66.4 x 133.9 x 77.8 mm
Unit Weight	0.60 lbs. / 272 g

LEVCA-M



LEVCA-MHD



Innovative Solutions for Public Safety Professionals



EVC-MT19-4
Rugged 4-unit model also available.



ENDURA™ **EVC** IN-VEHICLE CHARGERS

BK KNG In-Vehicle Charger

Rugged Single Unit Charger

EVC-BK2



For KNG-P150, KNG-P400, KNG-P500,
KNG-P800, KNG2-P150, KNG2-P400,
KNG2-P500, KNG2-P800 radios

- Tested to 9 g-force and NFPA compliant.
- Radio may stay powered on while charging.
- Includes DC hardwire cable and easy release tie-down strap.
- USB port for charging mobile phones or tablets.
- AMPS pattern with optional dash / floor mounting brackets available.

Housing Materials	ABS / PC blend with metal support frame
Contact Type	Custom design probe contact for fail-safe battery connection
Operating Temperature	0° C to 45° C / 32° F to 113° F
Charge Rate (Radio Battery)	800 mA
Input Voltage (Recommended)	14V – 24V / 2.8A (minimum for radio battery + USB) / 1.0A (minimum for radio battery only)
Input Voltage (Minimum)	12V / 2.8A for USB charging and partial charge of radio battery
USB Charging Port	For Type A connector / 5V output / 2A charge rate
DC Power Cable (EVC-HW)	Included with EVC-BK2, 16AWG / 3m (9.8') length / secure 4-pin connector
Unit Dimensions (W x H x D)	2.4" x 5.3" x 2.3" / 66.4 x 133.9 x 58.3 mm
Unit Weight	0.53 lbs. / 240 g



Innovative Solutions for Public Safety Professionals



Rugged 4-unit model also available.

L3Harris XL-200P In-Vehicle Charger

Rugged Single Unit Charger

EVC-HA3

For L3Harris XL-150P, XL-185P, XL-185Pi, XL-200P, and XL-200Pi radios.



- Tested to 9 g-force and NFPA compliant.
- Radio may stay powered on while charging.
- Includes DC hardwire cable and easy release tie-down strap.
- USB port for charging mobile phones or tablets.
- AMPS pattern with optional dash / floor mounting brackets available.
- Compatible with all L3Harris XL-200P batteries, including IS models 14035-4045-01 / XL-PA4F and 14035-5050-02 / XL-PA4L.

Housing Materials	ABS / PC blend with metal support frame
Contact Type	Custom design probe contact for fail-safe battery connection
Operating Temperature	0° C to 45° C / 32° F to 113° F
Charge Rate (Radio Battery)	800 mA
Compatible Chemistries	Li-Ion and LiPo
Input Voltage (Minimum)	12V / 2.8A for charging device from USB port and radio battery
USB Charging Port	For Type A connector / 5V output / 2A charge rate
DC Power Cable (EVC-HW)	Included with EVC-HA3, 16AWG / 3m (9.8') length / secure 4-pin connector
Unit Dimensions (W x H x D)	2.6" x 5.3" x 2.3" / 66.4 x 133.9 x 57.7 mm
Unit Weight	0.60 lbs. / 272 g



EVC-HA3-4
Rugged 4-unit model also available.

Kenwood VP6000 In-Vehicle Charger

Rugged Single Unit

EVC-KW4

For NX-300 | NX-5000 | VP5000 | VP6000 |
other Kenwood radios



- Tested to 9 g-force and NFPA compliant.
- Radio may stay powered on while charging.
- Includes DC hardwire cable and easy release tie-down strap.
- USB port for charging mobile phones or tablets.
- AMPS pattern with optional dash / floor mounting brackets available.
- Compatible with KNB-41NC / KNB-73LCM / KNB-50NC (IS batteries).

Housing Materials	ABS / PC blend with metal support frame
Contact Type	Custom design probe contact for fail-safe battery connection
Operating Temperature	0° C to 45° C / 32° F to 113° F
Charge Rate (Radio Battery)	800 mA
Compatible Chemistries	Li-Ion and LiPo
Input Voltage (Minimum)	12V / 2.8A for charging device from USB port and radio battery
USB Charging Port	For Type A connector / 5V output / 2A charge rate
DC Power Cable (EVC-HW)	Included with EVC-KW4, 16AWG / 3m (9.8') length / secure 4-pin connector
Unit Dimensions (W x H x D)	2.6" x 5.3" x 2.3" / 66.4 x 133.9 x 57.7 mm
Unit Weight	0.60 lbs. / 272 g



EVC-KW4-4
Rugged 4-unit model also available.

Motorola XTS In-Vehicle Charger

Rugged Single Unit

EVC-MT13

For MT1500 | PR1500 | XTS1500
XTS2500 | XTS3000 | XTS3500 | XTS5000



- Tested to 9 g-force and NFPA compliant.
- Radio may stay powered on while charging.
- Includes DC hardwire cable and easy release tie-down strap.
- USB port for charging mobile phones or tablets.
- AMPS pattern with optional dash / floor mounting brackets available.



LEVCA-M



LEVCA-MHD



EVC-MT13-4
Rugged 4-unit model also available.

Housing Materials	ABS / PC blend with metal support frame
Contact Type	Custom design probe contact for fail-safe battery connection
Operating Temperature	0° C to 45° C / 32° F to 113° F
Charge Rate (Radio Battery)	800 mA
Compatible Chemistries	Li-Ion / LiPo / NiMH
Input Voltage (Minimum)	12V / 2.8A or charging device from USB port and radio battery
USB Charging Port	For Type A connector / 5V output / 2A charge rate
DC Power Cable (EVC-HW)	Included with EVC-MT13, 16AWG / 3m (9.8') length / secure 4-pin connector
Unit Dimensions (W x H x D)	2.8" x 5.3" x 2.3" / 70.4 x 133.9 x 57.7 mm
Unit Weight	0.60 lbs. / 272 g



ESM-50 Rugged Speaker Mic

For Two-Way Radios

Microphone Type	Omni directional
Sensitivity	- 42dB +/- 3Db
Speaker	36mm Φ dynamic
Output Power	1W, maximum 1.5W
Output Level	91dB +/- 3dB
Frequency Range	580Hz ~ 5KHz
Operating Temperature	-25° C to +60° C
Storage Temperature	-40° C to +85° C
Cable Flex Life	50,000 cycles
Cable Pull Strength	Axial 13 kgs
PTT Switch Life	100,000 cycles
Ingress Protection	IP67

- Nexus port for connection of Savox, 3M Peltor, or David Clark / NATO headsets. (Available on models with an auto-Nexus port.)
- Emergency / programmable buttons. (Radio dependent, not available on all models.)
- Volume control buttons.
- Available for Motorola, Kenwood, L3Harris, and BK Technologies radios. See **ESM-50 Model Features** for details.





Speaker Mics | Earpiece Headsets | Surveillance Kits

AUDIO ACCESSORIES

For Two-Way Radios

SPEAKER MICS

Endura speaker mics are high-quality products with durable construction including a Kevlar reinforced cord. All models feature heavy-duty strain reliefs and a durable rotating clip. From demanding environments to light duty use, Endura has a mic option for a wide range of applications.

Available for Motorola, Kenwood, L3Harris, Hytera, Icom, BK Technologies, Tait, and Vertex radios.

Features	ESM-20-xx	ESM-27-xx	ESM-28-xx	ESM-50-xx
IP Rating	IP54	IP68	IP67	IP67
Earpiece Port	3.5 mm	3.5 mm	3.5 mm	3.5 mm
High / Low Volume Control	N/A	Yes	N/A	1
Speaker Volume	93±3dB	103±3dB	103±3dB	1
Operating Temperature	-30° C to 70° C	-30° C to 70° C	-30° C to 70° C	1
Emergency Button	N/A	Yes	N/A	Yes
360° Rotating Clip	Yes	Yes	Yes	Yes
Cable Diameter	4.5 mm	5.0 mm (most models)	5.0 mm (most models)	5.0 mm

Note 1: See ESM-50 brochure for more detailed feature listing.



ESM-28-xx

- Industrial
- Construction
- Public Safety
- Events



ESM-20-xx

- Retail
- Education
- Hospitality
- Recreation



ESM-27-xx

- Fire
- Industrial
- Police
- Public Safety



ESM-50-xx



- Fire
- Construction
- Public Safety
- Industrial

ESM-50 RUGGED SPEAKER MIC

Ideal for fire, public safety, and industrial radio users, the ESM-50 is uniquely designed with impressive features. Available for Motorola, L3Harris, Kenwood, and BK Technologies radios.

ESM-50 Additional Features	
Auto-Nexus Connector	Port for connecting Savox, 3M Peltor, or NATO / David Clark headsets; available for select models.
Speaker Mute	Active when accessory is connected to Nexus port.
Programmable Button	Available for select models.
Microphone	Omni-directional for clear voice reception from any position.
Support Ring	Slides over radio antenna.
Push-To-Talk	Oversized front PTT and secondary side PTT; each works well with gloves.

Authorized Dealer:



www.EnduraAudio.com

SURVEILLANCE KITS

Endura surveillance kits are available in 1-wire and 2-wire configurations. All models include Kevlar reinforced cables, heavy-duty strain reliefs, and durable rotating clips. Models are available for popular two-way radios and include key features as summarized.

Features	ESK-1W-xx	ESK-1WATD-xx	ESK-2WPM-xx
Type	1 wire with in-line PTT	1 wire with in-line PTT	2 wire with separate cable for PTT
Audio Tube	Replaceable	Quick disconnect	Quick disconnect
Spare Earbud	Included	Included	Included
Cable Length (connector to audio tube)	111.8 cm / 44.0" (coiled section relaxed)	111.8 cm / 44.0" (coiled section relaxed)	104.1 cm / 41.0"



ESK-1W-xx



ESK-1WATD-xx



ESK-2WPM-xx

EARPIECE HEADSETS + LISTEN-ONLY

Features	EAK-1WEH-xx	EAK-1WDR-xx	EAK-1WGR-xx
Type	1 wire with in-line PTT	1 wire with in-line PTT	1 wire with in-line PTT
Earpiece	Flexible ear hook for comfort / adjustable for best fit	D-ring adjusts for best fit / speaker rotates for best cable positioning	Flexible ear hook with swivel speaker for comfort / best fit
Spare Speaker Cover	3 included	N/A	N/A
Cable Length (connector to audio tube)	111.8 cm / 44.0" (coiled section relaxed)	111.8 cm / 44.0" (coiled section relaxed)	119.4 cm / 47.0"



EAK-1WEH-xx



EAK-1WDR-xx



EAK-1WGR-xx



ESK-LIS35-90

Models	Connector Type
ESK-LIS25-90	2.5 mm / 90°
ESK-LIS25-S	2.5 mm / straight
ESK-LIS35-90	3.5 mm / 90°
ESK-LIS35-S	3.5 mm / straight

Endura earpiece headsets are available in three styles – ear hook, D-ring, G- ring – and all feature an inline PTT with sturdy metal clip and Kevlar reinforced cables.



PRIVATE LABEL SPEAKER MIC PROGRAM

All Endura speaker mic models may be private labeled with a business logo or other identifying information. Labels and adhesive are made with high-quality materials and durable ink.

For additional information on lead time, minimum order quantity, and artwork requirements, visit: www.EnduraAudio.com.



MOTOROLA CP200 RADIO ACCESSORIES

For CP150 | CP200 | CP200d | CP250 | PR400 Radios



www.powerproducts.com

1-800-529-1618

REPLACEMENT BATTERIES

- Excellent fit with specified radios.

<u>BP4497LI</u> Replaces NNTN4497BR, NNTN4497AR, NNTN4970A		7.2V 2200 mAh 15.8 Wh Li-Ion	Japanese or Korean cells, 1-year warranty, includes belt clip, round housing
<u>BP4497LIXT</u> Replaces NNTN4497BR, NNTN4497AR, NNTN4970A		7.2V 2500 mAh 18.0 Wh Li-Ion	Japanese cells, 1-year warranty, includes belt clip, round housing
<u>BP4496-1</u> Replaces NNTN4496AR		7.5V 1100 mAh NiCd	1-year warranty, includes belt clip, round housing
<u>BP4851MHXT</u> Replaces NNTN4851A, PMNN4251		7.5V 1650 mAh NiMH	Japanese cells, 1-year warranty, includes belt clip, square housing
<u>BP4970LI</u> Replaces NNTN4970A		7.2V 1800 mAh 13.0 Wh Li-Ion	Japanese cells, 1-year warranty, includes belt clip, slim housing
<u>BPU4497</u> Convenient USB charging		7.4V 2600 mAh 19.2 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord and belt clip, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.

<u>EC1-MT3</u>		Desktop	Single unit charger, 2-year warranty
<u>EC1M-MT3</u>		In-Vehicle	Single unit charger with mounting bracket and VPA, 2-year warranty
<u>EC2M-MT3-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty

<u>EC6M-MT3</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-MT3-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-28-MT1</u>		Speaker mic, IP67 rated, extra loud audio, 3.5 mm port, 3-year warranty
<u>ESM-20-MT1</u>		Speaker mic, IP54 rated, durable construction, 3.5 mm port, 3-year warranty
<u>ESK-2WPM-MT1</u>		Two-wire surveillance kit, quick disconnect audio tube, includes spare earbuds, 3-year warranty
<u>ESK-1WATD-MT1</u>		One-wire surveillance kit, quick disconnect audio tube, includes spare earbuds, 3-year warranty
<u>ESK-1W-MT1</u>		One-wire surveillance kit, clear audio tube, includes spare earbuds, 3-year warranty
<u>EAK-1WGR-MT1</u>		One-wire G-ring earpiece with swivel speaker and compact PTT, 3-year warranty
<u>EAK-1WEH-MT1</u>		One-wire ear hook earpiece with swivel speaker and compact PTT, 3-year warranty
<u>EAK-1WDR-MT1</u>		One-wire adjustable D ring earpiece with swivel speaker and compact PTT, 3-year warranty



MOTOROLA APX RADIO ACCESSORIES

For APX900 | APX1000 | APX2000 | APX3000 | APX4000 Radios



www.powerproducts.com

1-800-529-1618

REPLACEMENT BATTERIES

- Excellent fit with specific radios.
- 1-year warranty

<u>BP4493LIPIC</u> Replaces: PMNN4493, PMNN4493A		7.4V 3500 mAh 25.9 Wh Li-Po	Smart battery, IP67 rated, includes belt clip, 1-year warranty
<u>BP4493LIIC</u> Replaces: PMNN4493, PMNN4493A		7.4V 3500 mAh 25.9 Wh Li-Ion	Smart battery, IP67 rated, includes belt clip, 1-year warranty
<u>BP4409LIIC</u> Replaces PMNN4409, PMNN4424AR, PMNN4544		7.4V 2500 mAh 18.5 Wh Li-Ion	Smart battery, IP67 rated, 1-year warranty, includes belt clip
<u>BP4406LIIC</u> Replaces PMNN4406, PMNN4407, PMNN4491		7.2V 2000 mAh 14.4 Wh Li-Ion	Smart battery, IP68 rated, 1-year warranty, includes belt clip
<u>BP4448LI</u> Replaces PMNN4448 (2700 mAh)		7.2V 2900 mAh 20.9 Wh Li-Ion	Non-smart battery, IP67 rated, 1-year warranty, includes belt clip
<u>BPU4409</u> Convenient USB charging		7.4V 2600 mAh 19.2 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord, 1-year warranty, includes belt clip

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.

<u>EC1-MT16B</u>		Desktop	Single unit charger, 2-year warranty
<u>EC1M-MT16B</u>		In-Vehicle	Single unit charger with mounting bracket and VPA, 2-year warranty

Local 770-740-9400



Fax 770-569-1844

<u>EC2M-MT16A-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC6M-MT16B</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-MT16A-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- 3-year warranty.
- Ask us about evaluation samples.

<u>ESM-50-MT9</u>		Rugged speaker mic, IP67 rated, emergency button, 3.5 mm port, volume control; Nexus connector (optional), 2-year warranty
<u>ESM-28-MT9</u>		Speaker mic, IP67 rated, extra loud audio, durable construction, 3.5 mm port, 3-year warranty
<u>ESM-20-MT9</u>		Speaker mic, IP54 rated, durable construction, 3.5 mm port, 3-year warranty
<u>ESK-1WATD-MT9</u>		One-wire surveillance kit with quick disconnect, includes spare earbuds, 3-year warranty
<u>EAK-1WGR-MT9</u>		One-wire G-ring earpiece with swivel speaker and compact PTT, 3-year warranty

THE TWO-WAY RADIO POWER EXPERTS

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MOTOROLA APX RADIO ACCESSORIES

For APX6000 | APX6000XE | APX7000 | APX7000XE
APX8000 | APX8000XE Radios

REPLACEMENT BATTERIES

- Smart and compatible with IMPRES™ 1 and 2 chargers.
- Excellent fit with specific radios.
- Two-year warranty on PolyMax™ batteries.

PM4486LIPIC Replaces: PMNN4486		7.4V 3400 mAh 25.2 Wh Li-Po	High-capacity Polymax battery, IP68 rated, 2-year warranty
PM4487LIPIC Replaces: PMNN4487		7.4V 4900 mAh 36.3 Wh Li-Po	High-capacity Polymax battery, IP68 rated, 2-year warranty
BPU7038 Convenient USB charging		7.4V 2500 mAh 18.5 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord, 1-year warranty
BP7034PLPU		9.0V 4500 mAh 40.5 Wh Li-MnO2	Primary lithium NON RECHARGEABLE emergency battery with a 10-year shelf life

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.
- All models safely charge OEM Li-Ion and NiMH batteries.

EVC-MT19		In-Vehicle	Rugged single unit charger tested to 9 g-force, includes USB port for mobile phone charging, 2-year warranty
EVC-MT19-4		In-Vehicle	Rugged 4-unit charger, ultra-compact, 2-year warranty
EC1V3-MT19T		Desktop	Affordable single unit charger, ideal for use within the 30-day conditioning cycle, 2-year warranty
EC1MV3-MT19T		In-Vehicle	Single unit in-vehicle charger with mounting bracket and VPA, 2-year warranty

<u>EC2MV3-MT19T-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC6MV3-MT19T-D</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12MV3-MT19T-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-50-MT9-XX</u>		Rugged speaker mic, IP67 rated, emergency button, 3.5 mm port, volume control; Nexus connector (optional), 2-year warranty
<u>ESM-20-MT9</u>		Speaker mic, IP54 rated, durable construction, 3.5 mm port, rotating clip, 3-year warranty
<u>ESM-28-MT9</u>		Speaker mic, IP67 rated, extra loud audio, durable construction, rotating clip, 3.5 mm port, 3-year warranty
<u>ESK-1WATD-MT9</u>		One-wire surveillance kit with easy-to-hold palm mic and quick disconnect audio tube, 3-year warranty
<u>EAK-1WGR-MT9</u>		One-wire G-ring earpiece with swivel speaker and compact PTT, 3-year warranty

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MOTOROLA XPR3000 ACCESSORIES

For XPR3300 | XPR3500 | XPR7350 Radios



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1-800-529-1618

REPLACEMENT BATTERIES

- Compatible with OEM chargers.
- Excellent fit with specified radios.

BP4493LIPIC Replaces: PMNN4493, PMNN4493A		7.4V 3500 mAh 25.9 Wh Li-Po	Smart battery, IP67 rated, includes belt clip, 1-year warranty
BP4493LIIC Replaces: PMNN4493, PMNN4493A		7.4V 3500 mAh 25.9 Wh Li-Ion	Smart battery, IP67 rated, includes belt clip, 1-year warranty
BP4406LIIC Replaces: PMNN4406, PMNN4407, PMNN4491		7.2V 2000 mAh 14.4 Wh Li-Ion	Smart battery, IP68 rated, includes belt clip, 1-year warranty
BP4409LIIC Replaces: PMNN4409, PMNN4424AR, PMNN4544		7.4V 2500 mAh 18.5 Wh Li-Ion	Smart battery, IP67 rated, includes belt clip, 1-year warranty
BP4448LI Replaces: PMNN4448 (2700 mAh)		7.2V 2900 mAh 20.9 Wh Li-Ion	Non-smart battery, IP67 rated, includes belt clip, 1-year warranty
BPU4409 Convenient USB or standard desktop charging		7.4V 2600 mAh 19.2 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.
- All models safely charge OEM batteries.

EC1-MT16B		Desktop	Affordable single unit charger, replaceable pod allows future update, 2-year warranty
EC1M-MT16B		In-Vehicle	Single unit in-vehicle charger with mounting bracket and VPA, 2-year warranty
EC2M-MT16A-D		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty

Local 770-740-9400



Fax 770-569-1844

<u>EC6M-MT16B</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-MT16A-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

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MOTOROLA XPR RADIO ACCESSORIES

For XPR6100 | XPR6300 | XPR6350 | XPR6380 | XPR6500 | XPR6550 |
XPR6580 Radios



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1-800-529-1618

REPLACEMENT BATTERIES

- Excellent fit with specified radios.

BP4065MH Replaces PMNN4065A, FNB-V116		7.4V 1600 mAh NiMH	Japanese cells, 1-year warranty, includes belt clip
BP4077LI-27 Replaces PMNN4066A, PMNN4077C, FNB-V117LI		7.2V 2700 mAh 19.4 Wh Li-Ion	Non-smart battery, Japanese cells, 1-year warranty, includes belt clip
BP4077LIXT Replaces PMNN4066A, PMNN4077C, FNB-V117LI		7.2V 2500 mAh 18.0 Wh Li-Ion	Smart battery, Japanese cells, 1-year warranty, includes belt clip
LE4069LIIS Replaces PMNN4069A		7.4V 2200 mAh 16.3 Wh Li-Ion	Intrinsically safe smart battery, IP64 rated, includes belt clip, 1-year warranty
BPU4077 Convenient USB charging		7.4V 2600 mAh 19.2 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord and belt clip, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.

EC1-MT16B		Desktop	Single unit charger, 2-year warranty
EC1M-MT16B		In-Vehicle	Single unit charger with mounting bracket and VPA, 2-year warranty
EC2M-MT16A-D		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
EC6M-MT16B		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty

<u>EC12M-MT16A-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty
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AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-50-MT9-04</u>		Rugged speaker mic, dual PTT, auto-Nexus and 3.5 mm ports, emergency button, 2-year warranty
<u>ESM-50-MT9-00</u>		Rugged speaker mic, dual PTT, 3.5 mm port, emergency button, 2-year warranty
<u>ESM-28-MT9</u>		Speaker mic, IP67 rated, extra loud audio, durable construction, 3.5 mm port, 3-year warranty
<u>ESM-20-MT9</u>		Speaker mic, IP54 rated, durable construction, 3.5 mm port, 3-year warranty
<u>ESK-1WATD-MT9</u>		One-wire surveillance kit with quick disconnect, includes spare earbuds, 3-year warranty
<u>EAK-1WGR-MT9</u>		One-wire G-ring earpiece with swivel speaker and compact PTT, 3-year warranty

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MOTOROLA XTS2500 RADIO ACCESSORIES

For XTS1500 | XTS2500 | MT1500 | PR1500 Radios



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1-800-529-1618

REPLACEMENT BATTERIES

■ Excellent fit with specified radios.

PM9858LIPIC Replaces NNTN7335, NNTN7554, PMNN44		7.4V 4100 mAh 30.3 Wh LiPo	High-capacity Polymax smart battery, includes belt clip, 2-year warranty
LE9857MHIS Replaces NTN9857		7.5V 2500 mAh 18.8 Wh NiMH	Intrinsically safe battery with Japanese cells, TIA-4950, 1-year warranty
BP9815-1 Replaces NTN9815		7.5V 1200 mAh 9.0 Wh NiCd	Includes belt clip, special order item, 1-year warranty
BP9858CSBK Replaces NNTN4851A, PMNN4251		Approximate capacity with 12 AA alkaline batteries is 5000 mAh	AA alkaline powered clamshell emergency battery, includes belt clip, special order item
BP9858CSOR Replaces NNTN4970A		Approximate capacity with 12 AA alkaline batteries is 5000 mAh	AA alkaline powered clamshell emergency battery, includes belt clip, special order item
BP9858MH Replaces NTN9858C		7.5V 2000 mAh NiMH	Includes belt clip, 1-year warranty
BP9858MHIC Replaces NTN9858C		7.5V 2500 mAh NiMH	Japanese cells, compatible with WPLN4114AR, WPLN4127AR, PMPN4135A, and PMPN4134A chargers, includes belt clip, 1-year warranty
BP9858MHXT		7.5V 2700 mAh NiMH	Japanese cells, includes belt clip, 1-year warranty
BP9858PL		9.0V 4500 mAh 40.5 Wh Li-MnO2	Primary lithium NON RECHARGEABLE emergency battery with Japanese cells, 10-year shelf life
BPU9858 Convenient USB charging		7.4V 2500 mAh 18.5 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord and belt clip, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.

<u>EVC-MT13</u>		In-Vehicle	Rugged single unit charger, certified to MIL-STD-810H (vibration), includes USB port for charging additional devices, 2-year warranty
<u>EVC-MT13-4</u>		In-Vehicle	Rugged 4-unit charger, ultra-compact for easy installation, includes DC power cable with XLR connector, 2-year warranty
<u>EC1-MT13B</u>		Desktop	Single unit charger, 2-year warranty
<u>EC1M-MT13B</u>		In-Vehicle	Single unit charger with mounting bracket and VPA, 2-year warranty
<u>EC2M-MT13-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC6M-MT13B</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-MT13-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-28-MT3</u>		Speaker mic, IP67 rated, extra loud audio, durable construction, rotating clip, 3.5 mm port, 3-year warranty
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MOTOROLA XTS3000 RADIO ACCESSORIES

For XTS3000 | XTS3500 | XTS5000 | Cosmo Radios



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1-800-529-1618

REPLACEMENT BATTERIES

- Excellent fit with specified radios.

PM8299LIPXT		7.4V 4600 mAh 34.0 Wh LiPo	High-capacity Polymax battery, includes belt clip, 2-year warranty
LE4007MHXTIS Replaces RNN4007AR		7.5V 3500 mAh 26.3 WH NiMH	Intrinsically safe battery with Japanese cells, includes belt clip, 1-year warranty
BP6034LIIC Replaces NNTN6034A		7.2V 4400 mAh 31.7 Wh Li-Ion	Smart battery with Japanese cells, includes belt clip, 1-year warranty
BP8294-1 Replaces NTN8294BR		7.5V 1500 mAh NiCd	Includes belt clip, 1-year warranty
BP8299MHUC Replaces RNN4006B		7.5V 3800 mAh NiMH	Japanese cells, includes belt clip, 1-year warranty
BP8299PLPU		9.0V 4500 mAh 40.5 Wh Li-MnO2	Primary lithium NON-RECHARGEABLE emergency battery with a 10-year shelf life, special order item
BP8299MH Replaces NTN8923AR		7.5V 2000 mAh NiMH	Japanese cells, includes belt clip, 1-year warranty
BPU8299 Convenient USB charging		7.4V 3000 mAh 22.2 Wh Li-Po	Battery with USB port, includes 24" USB charging cord and belt clip, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.

EVC-MT13		In-Vehicle	Rugged single unit charger, certified to MIL-STD-810H (vibration), includes USB port for charging additional devices, 2-year warranty
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<u>EVC-MT13-4</u>		In-Vehicle	Rugged 4-unit charger, ultra-compact for easy installation, includes DC power cable with XLR connector, 2-year warranty
<u>EC1-MT13B</u>		Desktop	Single unit charger, 2-year warranty
<u>EC1M-MT13B</u>		In-Vehicle	Single unit charger with mounting bracket and VPA, 2-year warranty
<u>EC2M-MT13-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC6M-MT13B</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-MT13-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-28-MT3</u>		Speaker mic, IP67 rated, extra loud audio, durable construction, rotating clip, 3.5 mm port, 3-year warranty
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KENWOOD NX-5000 RADIO ACCESSORIES

For NX-5000 | TK-5x30 | VP5000 | VP6000 Series Radios



www.powerproducts.com
1-800-529-1618

REPLACEMENT BATTERIES

- Compatible with OEM chargers.
- Excellent fit with specified radios.

BPKNBL2LI-26 Replaces: KNB-L1M and KNB-L2M		7.4V 2600 mAh 19.2 Wh Li-Ion	Standard capacity battery with Japanese cells, IP67 rated, 1-year warranty.
BPKNBL2LI-34S Replaces: KNB-L2M and KNB-L3M		7.4V 3400 mAh 25.2 Wh Li-Ion	Smart battery with Japanese cells, IP67 rated, 1-year warranty
BPKNBL2LI-34 Replaces: KNB-L2M and KNB-L3M		7.4V 3400 mAh 25.2 Wh Li-Ion	High-capacity battery with Japanese cells, IP67 rated, 1-year warranty
PMKNBL2LIP-41 Replaces: KNB-L2M and KNB-L3M		7.4V / 4100 mAh / 30.3 Wh / LiPo	Extended capacity battery with PolyMax cells, IP67 rated, 2-year warranty
BPKNBL2PL		9.0V 4500 mAh 40.5 Wh Li-MnO2	Non-rechargeable, primary lithium battery with Japanese cells, special order, 1-year warranty
LEKNBL2LIIS Replaces: KNB-L5S		7.4V 3400 mAh 25.2 Wh Li-Ion	Intrinsically safe battery with Japanese cells, 1-year warranty
BPUKNBL2 Convenient USB charging		7.4V 2600 mAh 19.2 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.
- All models safely charge OEM batteries.

EVC-KW4		In-Vehicle	Rugged single unit charger tested to 9 g-force, includes USB port for mobile phone charging, 2-year warranty
EVC-KW4-4		In-Vehicle	Rugged 4-unit charger, ultra-compact, 2-year warranty



EVC IN-VEHICLE CHARGERS

<u>EC1-KW4A</u>		Desktop	Affordable single unit charger, replaceable pod allows future update, 2-year warranty
<u>EC1M-KW4A</u>		In-Vehicle	Single unit in-vehicle charger with mounting bracket and VPA, 2-year warranty
<u>EC2M-KW4A-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC6M-KW4A</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-KW4A-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-50-KW2-XX</u>		Rugged speaker mic, IP67 rated, emergency button, 3.5 mm port, volume control; Nexus connector (optional), 2-year warranty
<u>ESM-20-KW2</u>		Speaker mic, IP54 rated, rotating clip, durable construction, 3.5 mm port, 3-year warranty
<u>ESM-28-KW2</u>		Speaker mic, IP67 rated, rotating clip, extra loud audio, durable construction, 3.5 mm port, 3-year warranty
<u>ESK-1WATD-KW2</u>		One-wire surveillance kit with compact PTT and quick disconnect audio tube, 3-year warranty
<u>ESK-2WPM-KW2</u>		Two-wire surveillance kit with easy-to-hold palm mic and quick disconnect audio tube, 3-year warranty
<u>EAK-1WGR-KW2</u>		One-wire earpiece with G-ring, swivel earpiece and compact PTT, 3-year warranty

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KENWOOD VIKING VP6000 ACCESSORIES

Also For VP5000 and NX-5000 Series Radios



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1-800-529-1618

REPLACEMENT BATTERIES

- Compatible with OEM chargers.
- Excellent fit with specified radios.

BPKNBL2LI-26 Replaces: KNB-L1M and KNB-L2M		7.4V 2600 mAh 19.2 Wh Li-Ion	Standard capacity battery with Japanese cells, IP67 rated, 1-year warranty.
BPKNBL2LI-34S Replaces: KNB-L2M and KNB-L3M		7.4V 3400 mAh 25.2 Wh Li-Ion	Smart battery with Japanese cells, IP67 rated, 1-year warranty
BPKNBL2LI-34 Replaces: KNB-L2M and KNB-L3M		7.4V 3400 mAh 25.2 Wh Li-Ion	High-capacity battery with Japanese cells, IP67 rated, 1-year warranty
PMKNBL2LIP-41 Replaces: KNB-L2M and KNB-L3M		7.4V / 4100 mAh / 30.3 Wh / LiPo	Extended capacity battery with PolyMax cells, IP67 rated, 2-year warranty
BPKNBL2PL SPECIAL ORDER		9.0V 4500 mAh 40.5 Wh Li-MnO2	Non-rechargeable, primary lithium battery with Japanese cells, special order, 1-year warranty
LEKNBL2LIIS Replaces: KNB-L5S		7.4V 3400 mAh 25.2 Wh Li-Ion	Intrinsically safe battery with Japanese cells, 1-year warranty
BPUKNBL2 Convenient USB charging		7.4V 2600 mAh 19.2 Wh Li-Ion	Battery with USB port, includes 24" USB charging cord, 1-year warranty

CHARGING SOLUTIONS

- Radio may stay powered on while charging.
- Space efficient designs simplify in-vehicle installation.
- Cold and hot battery monitoring and other important warnings.
- All models safely charge OEM batteries.

EVC-KW4		In-Vehicle	Rugged single unit charger tested to 9 g-force, includes USB port for mobile phone charging, 2-year warranty
EVC-KW4-4		In-Vehicle	Rugged 4-unit charger, ultra-compact, 2-year warranty



EVC IN-VEHICLE CHARGERS

<u>EC-KSC32</u>		Desktop	Low profile single unit charger, 2-year warranty
<u>EC1-KW4A</u>		Desktop	Affordable single unit charger, replaceable pod allows future update, 2-year warranty
<u>EC1M-KW4A</u>		In-Vehicle	Single unit in-vehicle charger with mounting bracket and VPA, 2-year warranty
<u>EC2M-KW4A-D</u>		Desktop In-Vehicle	Dual unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC6M-KW4A</u>		Desktop In-Vehicle	Six unit charger, accessories for in-vehicle installation available, 2-year warranty
<u>EC12M-KW4A-D</u>		Desktop In-Vehicle	Twelve unit charger, ultra-compact, accessories for in-vehicle installation available, 2-year warranty

AUDIO ACCESSORIES

- Quality products and competitively priced.
- Ask us about evaluation samples.

<u>ESM-50-KW2-00</u>		Rugged speaker mic, IP67 rated, emergency button, 3.5 mm port, volume control; 2-year warranty
<u>ESM-50-KW2-04</u>		Rugged speaker mic, IP67 rated, emergency button, 3.5 mm port, volume control; Nexus connector; 2-year warranty
<u>ESM-20-KW2</u>		Speaker mic, IP54 rated, rotating clip, durable construction, 3.5 mm port, 3-year warranty
<u>ESM-28-KW2</u>		Speaker mic, IP67 rated, rotating clip, extra loud audio, durable construction, 3.5 mm port, 3-year warranty
<u>ESK-1WATD-KW2</u>		One-wire surveillance kit with compact PTT and quick disconnect audio tube, 3-year warranty
<u>ESK-2WPM-KW2</u>		Two-wire surveillance kit with easy-to-hold palm mic and quick disconnect audio tube, 3-year warranty
<u>EAK-1WGR-KW2</u>		One-wire earpiece with G-ring, swivel earpiece and compact PTT, 3-year warranty



LMR CATALOG - MSRP

December 1, 2020

INCLUDES:

TWO-WAY RADIO BATTERIES
PAGER BATTERIES
FRS RADIO BATTERIES
RECHARGEABLE FLASHLIGHT BATTERIES
ALKALINE BATTERIES
GOOD 2 GO BATTERIES
ENDURA / LOGIC CHARGERS
ENDURA AUDIO ACCESSORIES

Power Products Unlimited, LLC

2170 Brandon Trail
Alpharetta, GA 30004

www.powerproducts.com

Part Number	OEM	Description	MSRP
TWO-WAY RADIO BATTERIES			
Motorola APX900 / APX1000 / APX2000 / APX3000 / APX4000			
BP4448LI	PMNN4448	7.2V / 2900 mAh / Li-Ion / clip / IP67	\$99.80
BP4406LIIC	PMNN4406 *		\$104.40
BP4409LIIC	PMNN4409 / PMNN4424	7.2V / 2500 mAh / Li-Ion / clip / smart / IP67	\$113.00
CL7144	N/A	Battery clip	\$11.80
* also PMNN4407 / PMNN4491			
Motorola APX6000 / APX7000 / APX8000			
BP7034PL **	N/A	9.0V / 4500 mAh / Li-MnO2 (black)	\$80.80
BP7034PLPU *	N/A	9.0V / 4500 mAh / Li-MnO2 (purple)	\$84.40
PM4486LIPIC	PMNN4486	7.4V / 3400 mAh / LiPo / smart / IP68 / PolyMax HPC	\$164.80
PM4487LIPIC	PMNN4487	7.4V / 4900 mAh / LiPo / smart / PolyMax HPC	\$187.80
* = non-rechargeable, primary lithium battery / ** = special order - non-rechargeable, primary lithium battery			
Motorola CLS1110 / CLS1410 / CLS1413 / CLS1450 / VL50			
BP5571LI-1	SNN5571, 56557	3.7V / 1200 mAh / Li-Ion	\$37.00
Motorola CP100 / i550 / i750 / XTN (XU1100, XU2100, XU2600, XV1100, XV2100, XV2600)			
BP4190	NNTN4190 / NTN8971	4.8V / 1500 mAh / NiMH	\$28.40
Motorola CP110			
BP6305LI	RLN6305	7.2V / 2200 mAh / Li-Ion / clip	\$89.80
CL6305	N/A	Battery clip	\$11.80
Motorola CP125 / AX Series / GP2000 / PRO2150 / VL130			
BP4063MH	PMNN4063AR	7.5V / 1400 mAh / NiMH / clip	\$58.00
CL4063	N/A	Battery clip	\$11.80
Motorola CP150 / CP200 / CP250 / EP450 / PR400			
BP4496-1	NNTN4496AR	7.5V / 1100 mAh / NiCd / clip (round)	\$57.00
BP4497LI	NNTN4497AR	7.2V / 2200 mAh / Li-Ion / clip (round)	\$71.80
BP4497LIXT	NNTN4497AR	7.2V / 2500 mAh / Li-Ion / clip (round)	\$80.80
BP4851MHXT	NNTN4851A	7.5V / 1650 mAh / NiMH / clip (square)	\$66.20
BP4970LI	NNTN4970A	7.2V / 1800 mAh / Li-Ion / clip (slim)	\$89.20
CL9628	N/A	Battery clip	\$11.80
Motorola CP185 / CP476 / CP477 / CP1300 / CP1600 / EP350 / P140 / P160 / P180			
BP4080LIXT	PMNN4080AR	7.4V / 2250 mAh / Li-Ion / clip (thick housing)	\$99.80
BP4081LI	PMNN4081AR *	7.4V / 1900 mAh / Li-Ion / clip (slim housing)	\$81.40
BP4082MH	PMNN4082AR	7.4V / 1600 mAh / NiMH / clip (standard)	\$73.40
CL7144	N/A	Battery clip	\$11.80
* = also PMNN4476A			
Motorola CT150 / CT250 / CT450 / CT450LS / PRO3150			
BP4018XT	PMNN4018AR	7.5V / 1600 mAh / NiMH / clip	\$61.20
CL7144	N/A	Battery clip	\$11.80
Motorola DTR410 / DTR510 / DTR550 / DTR610 / DTR650 / MTH650 / MTH800			
BP53964LI	53964	3.6V / 1880 mAh / Li-Ion	\$52.20
Motorola EX500 / EX600 / PRO5150 Elite			
BP4023LI	JMNN4024CR	7.2V / 1800 mAh / Li-Ion	\$91.40
Motorola GP300 / GP600 / GTX / LTS2000 / MTX638 / PTX600			
BP9628MH	WPNN4038A **	7.5V / 1500 mAh / NiMH / clip	\$59.20
BP9628MHXT *	PMNN4016	7.5V / 2000 mAh / NiMH / clip	\$69.20
BP9628UNC-1	HNN9628B	7.5V / 1200 mAh / NiCd / clip	\$53.80
CL7144	N/A	Battery clip	\$11.80
* = special order item / ** also PMNN4016			
Motorola GP320 / GP340 / GP360 / GP380 / GP640 / GP680 / GP1280			
SEE LISTING FOR: Motorola HT750 / HT1250 / HT1550 / PRO5150 / PRO7150 / PRO9150 (REFERENCE BATTERY: BP9008)			

Part Number	OEM	Description	MSRP
Motorola GP350			
BP9360-1	HNN9360B	7.5V / 1200 mAh / NiCd / clip	\$52.80
BP9360MH	HNN9360A	7.5V / 1500 mAh / NiMH / clip	\$60.40
CL9628	N/A	Battery clip	\$11.80
Motorola GP68 / Spirit SU42 / Spirit SV52			
BP68	PMN4000B	7.5V / 1200 mAh / NiCd	\$68.80
Motorola GP900 / GP1200			
SEE LISTING FOR: Motorola HT1000 / JT1000 / Mobius (REFERENCE BATTERY: BP7144MH)			
Motorola HT1000 / JT1000 / Mobius			
BP7143-1	NTN7143CR	7.5V / 1200 mAh / NiCd / clip	\$52.80
BP7144-1	NTN7144CR	7.5V / 1500 mAh / NiCd / clip	\$56.80
BP7144MH	WPNN4013A	7.5V / 2000 mAh / NiMH / clip	\$66.40
BP7144MHXT	N/A	7.5V / 2700 mAh / NiMH / clip	\$84.40
CL7144	N/A	Battery clip	\$11.80
Motorola HT210 / HT220 / HT220 Omni / MT500 Omni / MT700			
BP4463B-1	NLN4463B	15.0V / 600 mAh / NiCd	\$68.80
Motorola HT440			
BP7694	NLN7694A	12.5V / 700 mAh / NiCd	\$53.80
Motorola HT50			
BP5453	NTN5453B	10.0V / 1200 mAh / NiCd	\$64.20
Motorola HT600 / HT800			
BP5414-1 *	NTN4585A	10.0V / 1200 mAh / NiCd	\$61.20
* = special order item			
Motorola HT750 / HT1250 / HT1550 / PRO5150 / PRO7150 / PRO9150			
BP9008	HNN9008AR	7.5V / 1500 mAh / NiMH / clip	\$57.80
BP9009	HNN9009AR	7.5V / 2000 mAh / NiMH / clip	\$67.40
BP9009HC	HNN9009AR	7.5V / 2700 mAh / NiMH / clip	\$84.80
BP9009PL **	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (non-rechargeable)	\$72.20
BP9012-1 *	HNN9012BR	7.5V / 1200 mAh / NiCd / clip	\$62.80
BP9013LI	HNN9013DR	7.2V / 1800 mAh / Li-Ion / clip	\$86.40
BP9858CSBK	NNTN6686A	Alkaline clamshell / clip / black	\$70.60
BP9858CSOR	NNTN6686A	Alkaline clamshell / clip / orange	\$70.60
PM9013LIP	N/A	7.4V / 4100 mAh / LiPo / clip / PolyMax HPC	\$145.00
CL9008	N/A	Battery clip	\$11.80
* special order / ** = special order - non-rechargeable, primary lithium battery			
Motorola HT90			
BP7434-1	NLN7434A	12.5V / 600 mAh / NiCd	\$53.20
Motorola Mag One / BPR40			
BP4071MH-1	PMNN4071	7.2V / 1300 mAh / NiMH / clip	\$39.80
BP4075LI-1	PMNN4075AR	7.4V / 1700 mAh / Li-Ion / clip	\$69.80
CL4071	N/A	Battery clip	\$11.80
Motorola MT1000 / MTX800 / MTX900			
BP5447-1	NTN5447BR	10.0V / 1200 mAh / NiCd	\$61.20
BP5447MH	NTN5447	10.0V / 2000 mAh / NiMH	\$75.60
BP5447MH-SC	N/A	10.0V / 1450 mAh / NiMH (short case)	\$68.80
Motorola MT2000 / MTS2000 / MTX8000 / MTX9000 / MTZ2000			
SEE LISTING FOR: Motorola HT1000 / JT1000 / Mobius (REFERENCE BATTERY: BP7144MH)			
Motorola MTX850 / MTX850LS / MTX950 / MTX960 / MTX8250LS / MTX9250			
SEE LISTING FOR: Motorola HT750 / HT1250 / HT1550 / PRO5150 / PRO7150 / PRO9150 (REFERENCE BATTERY: BP9008)			

Part Number	OEM	Description	MSRP
Motorola MX300 Series			
BP5860	NLN5860	7.5V / 1800 mAh / NiCd	\$71.20
Motorola P10 / P50+ (High Power) / SP10 / SP50 / HT10 (Approximate height 3.35i.)			
BP9027	HNN9027A	10.8V / 600 mAh / NiCd	\$38.20
Motorola P10 / P50+ (Low Power) / SP10 / SP50 / HT10 / Spirit M Series (Approximate height 2.25").			
BP9044	HNN9044AR / HNN9056	7.5V / 600 mAh / NiCd	\$24.40
BP9044MH	N/A	7.5V / 1000 mAh / NiMH	\$39.80
Motorola P10 / SP50+ (Low Power) / SP10 / SP50 / HT10 (Approximate height 3.35").			
BP9018	HNN9018AR	7.5V / 1200 mAh / NiCd (3.35")	\$38.20
BP9018MH	N/A	7.5V / 2000 mAh / NiMH (3.35")	\$55.20
Motorola P100			
BP5451	NTN5451B	10.0V / 1200 mAh / NiCd	\$64.20
Motorola P110			
BP8148-1	HNN8148B	7.5V / 1200 mAh / NiCd	\$55.00
BP8148MH *	WPNN4039AR	7.5V / 1800 mAh / NiMH	\$67.80
* special order item			
Motorola P1225 / P1325			
BP9049-1	HNN9049A	7.5V / 1200 mAh / NiCd / clip	\$61.60
BP9049MH	HNN9051A	7.5V / 2000 mAh / NiMH / clip	\$71.20
CL9628	N/A	Battery clip	\$11.80
Motorola P200 / P210			
BP5521-1	NTN5521B	10.0V / 1200 mAh / NiCd	\$60.40
BP5521MH	NTN5521B	10.0V / 2000 mAh / NiMH	\$75.40
Motorola PR860			
SEE LISTING FOR: Motorola HT750 / HT1250 / HT1550 / PRO5150 / PRO7150 / PRO9150 (REFERENCE BATTERY: BP9008)			
Motorola R750 / R750D			
NM-R750	NTN9037A	4.8V / 1650 mAh / NiMH	\$61.20
Motorola RDX Series / RDU2020 / RDU2080d / RDU4100 / RDU4160d / RDV2020 / RDV2080d / RDV5100			
BP6305LI	RLN6305	7.2V / 2200 mAh / Li-Ion / clip	\$89.80
CL6305	N/A	Battery clip	\$11.80
Motorola RM Series / RMM2050 / RMU2080 / RMU2040 / RMU2043 / RMU2080d / RMV2080 / XT420 / XT460			
BP4434LI	PMNN4434	3.7V / 2500 mAh / Li-Ion	\$59.60
Motorola Saber / Astro Saber / MX1000 / MX2000 / MX3000			
BP4593 *	NTN8810	7.2V / 1200 mAh / NiCd (short)	\$59.80
BP4593LI *	N/A	7.4V / 1900 mAh / Li-Ion	\$150.80
BP4595	NTN4595DR	7.5V / 1800 mAh / NiCd	\$71.00
BP4595MHXT	N/A	7.5V / 2700 mAh / NiMH	\$95.00
* = special order item			
Motorola SL300			
BP4468LI	PMNN4468	3.7V / 2300 mAh / Li-Ion	\$49.80
Motorola SL3500e			
BP4468LI	PMNN4468	3.7V / 2300 mAh / Li-Ion	\$49.80
Motorola SL7550 / SL7550e / SL7580 / SL7580e / SL7590 / SL7590e			
BP4468LI	PMNN4468	3.7V / 2300 mAh / Li-Ion	\$49.80
* = requires extended battery door (PMLN6745)			
Motorola STX / MX800			
BP4327B *	NTN4327C	7.5V / 1800 mAh / NiCd	\$73.00
* = special order item			

Part Number	OEM	Description	MSRP
Motorola Visar			
BP7394MH	NTN7394CR	7.5V / 2000 mAh / NiMH	\$68.80
BP7395-1 *	NTN7395BR	7.5V / 1200 mAh / NiCd	\$60.40
* = special order item			
Motorola XPR3300 / XPR3500 / XPR7350 / XPR7380 / XPR7550 / XPR7580 / MOTOTRBO Series			
BP4448LI	PMNN4448	7.2V / 2900 mAh / Li-Ion / clip / IP67	\$99.80
BP4406LIIC	PMNN4406 *	7.2V / 2000 mAh / Li-Ion / clip / smart / IP68	\$104.40
BP4409LIIC	PMNN4409 / PMNN4544	7.2V / 2500 mAh / Li-Ion / clip / smart / IP67	\$113.00
CL7144	N/A	Battery clip	\$11.80
* also PMNN4407 / PMNN4491			
Motorola XPR6100 / XPR6300 / XPR6350 / XPR6380 / XPR6500 / XPR6550 / XPR6580 / MOTOTRBO Series			
BP4065MH	PMNN4065A	7.2V / 1600 mAh / NiMH / clip	\$77.60
BP4077LI-27	PMNN4077C	7.2V / 2700 mAh / Li-Ion / clip	\$89.80
BP4077LIXT	PMNN4077C	7.2V / 2500 mAh / Li-Ion / clip / smart	\$106.60
LE4069LIIS	PMNN4069A	7.4V / 2200 mAh / Li-Ion / clip / IP64 / smart / IS	\$129.80
CL7144	N/A	Battery clip	\$11.80
Motorola XTS1500 / XTS2500 / MT1500 / PR1500			
BP9815-1 *	NTN9815B	7.5V / 1200 mAh / NiCd / clip	\$76.40
BP9858MH	NTN9858A	7.5V / 2000 mAh / NiMH / clip	\$69.20
BP9858MHIC	NTN9858C	7.5V / 2500 mAh / NiMH / clip / smart	\$102.80
BP9858MHXT	N/A	7.5V / 2700 mAh / NiMH / clip	\$84.40
BP9858PL **	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (non-rechargeable)	\$65.60
BP9858CSBK *	NNTN6686A	Alkaline clamshell / clip / black	\$70.60
BP9858CSOR *	NNTN6686A	Alkaline clamshell / clip / orange	\$70.60
LE9857MHIS	NTN9857	7.5V / 2500 mAh / NiMH / clip / IS	\$131.80
PM9858LIPIC	PMNN4595	7.4V / 4100 mAh / LiPo / clip / PolyMax HPC / smart	\$145.00
CL9008	N/A	Battery clip	\$11.80
* = special order item / ** = special order - non-rechargeable, primary lithium battery			
Motorola XTS3000 / XTS3500 / XTS5000 / Cosmo			
BP6034LIIC	NNTN6034A	7.2V / 4400 mAh / Li-Ion / clip / smart	\$145.80
BP8294-1	NTN8294BR	7.5V / 1500 mAh / NiCd / clip	\$73.80
BP8299CSOR *	NTN9183A	Alkaline clamshell / clip / orange	\$63.20
BP8299MH	NTN8923AR	7.5V / 2000 mAh / NiMH / clip	\$76.60
BP8299MHXT	NTN8923AR	7.5V / 2700 mAh / NiMH / clip	\$87.00
BP8299MHUC	RNN4006B	7.5V / 3800 mAh / NiMH / clip	\$91.60
BP8299PL **	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (black)	\$80.80
BP8299PLPU **	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (purple)	\$85.20
LE4007MHXTIS	RNN4007AR	7.5V / 3500 mAh / NiMH / IS / clip	\$127.80
PM8299LIPXT	N/A	7.4V / 4600 mAh / LiPo / clip / PolyMax HPC	\$151.20
CL8299	N/A	Battery clip	\$11.80
* = special order item / ** = special order - non-rechargeable, primary lithium battery			
BearCom BC95			
BPV106MH-1	FNB-V106	7.2V / 1200 mAh / NiMH	\$48.40
BearCom BC120			
BP4063MH	PMNN4063AR	7.5V / 1400 mAh / NiMH / clip	\$58.00
CL4063	N/A	Battery clip	\$11.80
BearCom BC130			
BP4071MH-1	PMNN4071	7.2V / 1300 mAh / NiMH / clip	\$39.80
BP4075LI-1	PMNN4075AR	7.4V / 1700 mAh / Li-Ion / clip	\$69.80
CL4071	N/A	Battery clip	\$11.80
BearCom BC250D			
BPV143LI	FNB-V143LI	7.4V / 2500 mAh / Li-Ion / IP68	\$79.60
BearCom BC1000			
BP279LIXT	BP279	7.2V / 2000 mAh / Li-Ion / clip* / IP68	\$83.80
CLV113A *	N/A	Battery clip	\$11.80
* = clip not interchangeable with Icom MB-133			

Part Number	OEM	Description	MSRP
BK Technologies (Bendix-King Radios): DPH / EPH / GPH / LPA / LPH / LPX			
BP109BK	LAA0193	10.0V / 1400 mAh / NiCd (black)	\$66.80
BP109CSBLA	LAA0191	Alkaline clamshell - black	\$46.00
BP109CSORA	LAA0139	Alkaline clamshell - orange	\$46.00
BP109MHXT *	LAA0127	10.0V / 2700 mAh / NiMH	\$114.00
BP170LI	LAA0170	10.8V / 2200 mAh / Li-Ion (black)	\$96.80
BP171LI-SC	LAA0171	10.8V / 2000 mAh / Li-Ion (short / black)	\$148.00
BP170LIXT	LAA0172	10.8V / 3800 mAh / Li-Ion (black)	\$196.00
* = special order item			
BK Technologies (KNG): KNG-P150 / KNG-P400 / KNG-P500 / KNG-P800 / KNG2-P150 / KNG2-P400 / KNG2-P500 / KNG2-P800			
BP0100LI	KAA0100	10.8V / 2200 mAh / Li-Ion / clip / smart	\$159.80
BP0101LIXT	KAA0101	10.8V / 3600 mAh / Li-Ion / clip / smart	\$184.60
CL0100	KAA0400	Battery clip	\$11.80
BK Technologies (Relm Radios) RPU3000, RPU3600, RPU3600A, RPV3000, RPV3600, RPV3600A			
BPRP1700LI	BPRP1700	7.4V / 1700 mAh / Li-Ion / clip	\$92.20
CL1700	N/A	Battery clip	\$11.80
BK Technologies (Relm Radios) RPU416 / RPU499 / RPV516 / RPV599			
BPRP1500MH	BPRP1500	7.2V / 1500 mAh / NiMH / clip	\$65.80
CL7144	N/A	Battery clip	\$11.80
Datron Guardian G25RPV100 Series			
BP6034LIIC	NNTN6034A	7.2V / 4400 mAh / Li-Ion / clip / smart	\$145.80
BP8294-1	NTN8294BR	7.5V / 1500 mAh / NiCd / clip	\$73.80
BP8299MH	NTN8923AR	7.5V / 2000 mAh / NiMH / clip	\$76.60
BP8299MHXT	NTN8923AR	7.5V / 2700 mAh / NiMH / clip	\$87.00
BP8299MHUC	RNN4006B	7.5V / 3800 mAh / NiMH / clip	\$91.60
BP8299PL *	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (black)	\$80.80
BP8299PLPU *	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (purple)	\$85.20
LE4007MHXTIS	RNN4007AR	7.5V / 3500 mAh / NiMH / IS / clip	\$127.80
PM8299LIPXT	N/A	7.4V / 4600 mAh / LiPo / clip / PolyMax HPC	\$151.20
CL8299	N/A	Battery clip	\$11.80
* = special order - non-rechargeable, primary lithium battery			
EF Johnson 5100 Series / 51SL ES / Ascend ES			
BP6034LIIC	NNTN6034A	7.2V / 4400 mAh / Li-Ion / clip / smart	\$145.80
BP8294-1	NTN8294BR	7.5V / 1500 mAh / NiCd / clip	\$71.60
BP8299MH	NTN8923AR	7.5V / 2000 mAh / NiMH / clip	\$76.60
BP8299MHXT	NTN8923AR	7.5V / 2700 mAh / NiMH / clip	\$87.00
BP8299MHUC	RNN4006B	7.5V / 3800 mAh / NiMH / clip	\$91.60
BP8299PL *	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (black)	\$78.40
BP8299PLPU *	N/A	9.0 V / 4500 mAh / Li-MnO ₂ (purple)	\$82.80
LE4007MHXTIS	RNN4007AR	7.5V / 3500 mAh / NiMH / IS / clip	\$127.80
PM8299LIPXT	N/A	7.4V / 4600 mAh / LiPo / clip / PolyMax HPC	\$151.20
CL8299	N/A	Battery clip	\$11.80
* = special order - non-rechargeable, primary lithium battery			
EF Johnson 7500 Series / Falcon 7500			
BP196-1	BP196	9.6V / 1000 mAh / NiCd / clip	\$60.40
BP196MH	BP196	9.6V / 1500 mAh / NiMH / clip	\$61.20
CL196	N/A	Battery clip	\$11.80
EF Johnson VP400 / VP600 / VP900			
BP57374LI	587-5700-471	7.4V / 4400 mAh / Li-Ion / clip / IP68	\$159.80
BP57374CS *	N/A	Alkaline clamshell - orange	\$63.20
CL57374	N/A	Battery clip	\$11.80
* = special order item			
EF Johnson VP5000 / VP5230 / VP5330 / VP5430			
BPKNBL2LI-26	KNBL2M	7.4V / 2600 mAh / Li-Ion / IP67	\$109.40
BPKNBL2LI-34	KNBL3M	7.4V / 3400 mAh / Li-Ion / IP67	\$137.80
BPKNBL3LI-48 *	KNBL3M	7.4V / 4800 mAh / Li-Ion / IP67	\$165.80
LEKNBL2LIIS	KNBL5S	7.4V / 3400 mAh / Li-Ion / IP67 / IS	\$179.80

Part Number	OEM	Description	MSRP
PMKNBL2LIP-41	KNBL3M	7.4V / 4100 mAh / LiPo / IP67	\$145.80

* = special order item

EF Johnson VP6000 / VP6230 / VP6330 / VP6430

SEE LISTING FOR: EF Johnson VP5000 / VP5230 / VP5330 / VP5430 (REFERENCE BATTERY: BPKNBL2LI-34)

L3HARRIS GROUPING ALSO INCLUDES BATTERIES FOR M/A-COM RADIOS

Harris HDP100 / HDP150 (Momentum Series)

BPBL2006LI	BL2006 / HD-PA2V	7.4V / 2000 mAh / Li-Ion (slim housing)	\$87.80
BPBL2503LIXT	BL2503 / HD-PA2Y	7.4V / 2500 mAh / Li-Ion (thick housing)	\$98.20

Harris HDP250 (Momentum Series)

BPBL1809LI	BL1809	7.4V / 1900 mAh / Li-Ion	\$104.80
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Harris P5300 Series / P5350 / P5370

BP234063MH	BT-023406-003	7.5V / 2700 mAh / NiMH / clip	\$117.00
BP234065LI	BT-023406-005 **	7.4V / 2500 mAh / Li-Ion / clip	\$119.40
BP234065PL *	N/A	9.0V / 3000 mAh / Li-MnO2 (non-rechargeable)	\$57.00
LE234066LIIS	BT-023406-006	7.4V / 2500 mAh / Li-Ion / clip / IS / IP64	\$133.80
PM234361LIP	BT-023436-001	7.4V / 4100 mAh / LiPo / clip / PolyMax HPC	\$145.00
CL234065HT	N/A	Battery clip	\$11.80

* = special order - non-rechargeable, primary lithium battery / ** = alternate OEM part number: EV-PA3R

Harris P5400 Series / P5450 / P5470

SEE LISTING FOR: Harris P5300 Series / P5350 / P5370 (REFERENCE BATTERY: BP234065LI)

Harris P5500 Series / P5550 / P5570

SEE LISTING FOR: Harris P5300 Series / P5350 / P5370 (REFERENCE BATTERY: BP234065LI)

Harris P7300 Series / P7350 / P7370

SEE LISTING FOR: Harris P5300 Series / P5350 / P5370 (REFERENCE BATTERY: BP234065LI)

Harris TP3000 Series / TP3300 / TP3550

BPT0300330LI	T03-00330-AAAA	7.4V / 2300 mAh / Li-Ion / IP68	\$74.80
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Harris XG-15P / XG-25P / XG-75P

SEE LISTING FOR: Harris P5300 Series / P5350 / P5370 (REFERENCE BATTERY: BP234065LI)

Harris XG-100P (Unity)

BP1912CSBK	N/A	Alkaline clamshell - black	\$43.60
LE1912MHIS	BKB191210/36	7.5 V / 2500 mAh / NiMH / IS	\$133.80

Harris XL-185P / XL-185Pi / XL-200P / XL-200Pi

BPPA3VLI	XL-PA3V *	7.2V / 3100 mAh / Li-Ion / IP67	\$135.00
BPPA3VLIXT	XL-PA4K **	7.2V / 5000 mAh / Li-Ion / IP68	\$168.00

* = alternate OEM part number: 14035-4010-04 / ** = alternate OEM part number: 14035-5050-01

M/A-COM / Harris: P5100 / P5130 / P5150 / P5200

BP1912-1	BKB191210/33	7.5V / 1500 mAh / NiCd	\$81.80
BP1912CSBK	N/A	Alkaline clamshell - black	\$43.60
BP1912MH	BKB191210/34	7.5V / 2700 mAh / NiMH	\$97.00
BP1912PL *	N/A	9.0V / 3000 mAh / Li-MnO2 (non-rechargeable)	\$57.00
LE1912MHIS	BKB191210/36	7.5 V / 2500 mAh / NiMH / IS	\$133.80
PM1912LIP	N/A	7.4V / 4100 mAh / LiPo / PolyMax HPC	\$145.00
PM1912LIP-P710X	HMA-2104-LIP	7.4V / 4100 mAh / LiPo	\$145.00

* = non-rechargeable, primary lithium battery

M/A-COM / Harris: P7100 / P7130 / P7150 / P7170

SEE LISTING FOR: M/A-COM / Harris: P5100 / P5130 / P5150 / P5200 (REFERENCE BATTERY: BP1912MH)

M/A-COM / Harris: P7200 / P7230 / P7250 / P7270

SEE LISTING FOR: M/A-COM / Harris: P5100 / P5130 / P5150 / P5200 (REFERENCE BATTERY: BP1912MH)

M/A-COM / GE / Ericsson: Cougar / 400P / 600P / 605P / 625P

BPTOPB500	TOPB100H	7.2V / 2150 mAh / NiMH / clip	\$79.60
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Part Number	OEM	Description	MSRP
CLTOPB500	N/A	Battery clip	\$11.80
M/A-COM / GE / Ericsson: EDACS 300P			
BP212/2XT-1 *	BKB191212/2	7.5V / 1200 mAh / NiCd / clip	\$68.80
BP212/2MH	BKB191212/2	7.5V / 2000 mAh / NiMH / clip	\$75.40
CL4063	N/A	Battery clip	\$11.80
* = special order item			
M/A-COM / GE / Ericsson: Jaguar 700P / 700Pi / 710P / SPD2000			
SEE LISTING FOR: M/A-COM / Harris: P5100 / P5130 / P5150 / P5200 (REFERENCE BATTERY: BP1912MH)			
M/A-COM / GE / Ericsson: Monogram Series			
BP1155	SA1155/1255	10.8V / 600 mAh / NiCd (short)	\$67.00
BP1170	SA1170/1270	10.8V / 1200 mAh / NiCd (long)	\$73.20
M/A-COM / GE / Ericsson: MPA / MPD / PLS / TPX			
BP8607 *	BKB191205/3	7.5V / 1800 mAh / NiCd (long)	\$79.60
BP8507-17 *	BKB191205/1	7.5V / 1200 mAh / NiCd (short)	\$77.80
* = special order item			
M/A-COM / GE / Ericsson: M-RK I / M-RK II / Comnet			
BP2781 *	344A3278P1	7.5V / 1800 mAh / NiCd (long)	\$75.20
BP8381-1	19A149838P1	7.5V / 1000 mAh / NiCd (short)	\$62.80
BP8381MH	19A149838P1	7.5V / 1500 mAh / NiMH (short)	\$67.60
BP8381MHXT	19A149838P1	7.5V / 3000 mAh / NiMH (long)	\$97.40
* = special order item			
M/A-COM / GE / Ericsson: Panther 400P / 405P / 600P / 605P / 625P			
BPTOPB500	TOPB100H	7.2V / 2150 mAh / NiMH / clip	\$79.60
CLTOPB500	N/A	Battery clip	\$11.80
M/A-COM / GE / Ericsson: Panther 500P / KPC300 / KPC400 / LPE200			
BP1202	BKB191202	7.5V / 1500 mAh / NiCd (long)	\$75.20
BP1202MH	BKB191202	7.5V / 2700 mAh / NiMH (long)	\$98.20
BP1203-1	BKB191203	7.5V / 1200 mAh / NiCd (short)	\$65.80
BP1203MH	BKB191203/1	7.5V / 2000 mAh / NiMH (short)	\$73.00
M/A-COM / GE / Ericsson: PCS			
BP2931XXT *	19A705293P1	7.5V / 1200 mAh / NiCd (short)	\$78.60
BP2932 *	19A705293P2	7.5V / 1800 mAh / NiCd (long)	\$77.40
* = special order item			
Hytera BD502 / BD502i / BD552 / BD552i			
BPBL1506LI	BL1506	7.2V / 1500 mAh / 10.8 Wh / Li-Ion	\$51.20
Hytera PD362 / PD362i / PD355LF			
BPBL2009LI	BL2009	3.7V / 2000 mAh / Li-Ion	\$45.40
Hytera PD402i / PD412i / PD502i / PD562i / PD602i / PD662i / PD682i			
BPBL1502LI	BL1502 / BL1504	7.4V / 1500 mAh / Li-Ion	\$59.60
BPBL2010LI	BL2010	7.4V / 2000 mAh / Li-Ion	\$89.80
Hytera PD702 / PD702i / PD752 / PD752i / PD782 / PD782i			
BPBL2006LI	BL2006	7.4V / 2000 mAh / Li-Ion (slim housing)	\$87.80
BPBL2503LIXT	BL2503	7.4V / 2500 mAh / Li-Ion (thick housing)	\$98.20
Hytera X1e / X1p / Z1p			
BPBL1809LI *	BL1809	7.4V / 1900 mAh / Li-Ion	\$104.80
* = special order item			
Hytera PT580H			
BPBL1806LI *	BL1806	7.4V / 2000 mAh / Li-Ion	\$102.80
* = special order item			
Hytera (HYT) TC-320 / TC-320U			
BPBL1715LI-1	BL1715	3.7V / 1800 mAh / Li-Ion	\$36.40

Part Number	OEM	Description	MSRP
Hytera (HYT) TC-500 / TC-500U / TC-500V			
BPBH1301	BH1301	6.0V / 1300 mAh / NiMH / clip	\$35.00
CL4063	N/A	Battery clip	\$11.80
Hytera (HYT) TC-508 / TC-518 / TC-580			
BPBL2003LI	BL2003	7.4V / 2000 mAh / Li-Ion	\$55.40
Hytera (HYT) TC-600 / TC-600U / TC-600V			
BPBL1203LI	BL1203	7.2V / 1200 mAh / Li-Ion / clip	\$55.40
CL1203	N/A	Battery clip	\$11.80
Hytera (HYT) TC-610 / TC-610P / TC-620			
BPBL1204LI	BL1204	7.4V / 1200 mAh / Li-Ion	\$58.20
BPBL2001LI	BL2001	7.4V / 2000 mAh / Li-Ion	\$69.20
Hytera (HYT) TC-700 / TC-780			
BPBL1703-1	BL1703	7.4V / 1800 mAh / Li-Ion	\$67.20
Icom IC-A14 / IC-A14S			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-A24 / IC-A6			
BP209-1	BP209N	7.2V / 1000 mAh / NiCd / screw-on clip	\$55.20
BP210N	BP210N	7.2V / 1650 mAh / NiMH / screw-on clip	\$63.80
BP211LI	BP211N	7.4V / 2200 mAh / Li-Ion / screw-on clip	\$75.00
CL227	N/A	Battery clip (screw-on)	\$11.80
Icom IC-F11 / IC-F11S / IC-F21 / IC-F21BR / IC-F21GM / IC-F21S			
SEE LISTING FOR: Icom IC-A24 / IC-A6 (REFERENCE BATTERY: BP210N)			
Icom IC-F14 / IC-F15 / IC-F24 / IC-F25 / IC-F33 / IC-F34 / IC-F43 / IC-F43TR / IC-F44			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-F3 / IC-F4 / IC-F4TR / IC-T2A / IC-A4 / IC-T2H			
BP196-1	BP196	9.6V / 1000 mAh / NiCd / clip	\$60.40
BP196MH	BP196	9.6V / 1500 mAh / NiMH / clip	\$61.20
CL196	N/A	Battery clip	\$11.80
Icom IC-F3GS / IC-F3GT / IC-F4GS / IC-F4GT			
SEE LISTING FOR: Icom IC-A24 / IC-A6 (REFERENCE BATTERY: BP210N)			
Icom IC-F30GS / IC-F30GT / IC-F40GS / IC-F40GT			
SEE LISTING FOR: Icom IC-A24 / IC-A6 (REFERENCE BATTERY: BP210N)			
Icom IC-F1000 (D/T/S) / IC-F1100 (D/DT/DS) / IC-F2000 (D/T/S) / IC-F2100 (D/DT/DS)			
BP279LIXT	BP279	7.2V / 2280 mAh / Li-Ion / clip* / IP68	\$83.80
CLV113A *	N/A	Battery clip	\$11.80
* = clip not interchangeable with Icom MB-133			
Icom IC-F3001 / IC-F3002 / IC-F3003 / IC-F4001 / IC-F4002 / IC-F4003			
BP264MH-1	BP264	7.2V / 1500 mAh / NiMH / clip	\$47.80
BP265LI	BP265	7.4V / 2200 mAh / Li-Ion / clip	\$69.00
CL4071	N/A	Battery clip	\$11.80
Icom IC-F3011 / IC-F3013 / IC-F4011 / IC-F4013			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-F3021 (T/S) / IC-F3023 (T/S) / IC-F4021 (T/S) / IC-F4023 (T/S)			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-F3031S / IC-F4031S			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80

Part Number	OEM	Description	MSRP
Icom IC-F3101D / IC-F3103D / IC-F4101D / IC-F4103D			
SEE LISTING FOR: Icom IC-F3001 / IC-F3002 / IC-F3003 / IC-F4001 / IC-F4002 / IC-F4003 (REFERENCE BATTERY: BP264MH-1)			
Icom IC-F3161 (DT/DS/T/S) / IC-F3163 (T/S) / IC-F4161 (DT/DS/T/S) / IC-F4163 (T/S)			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
LE232LIIS	BP232FM	7.4V / 2500 mAh / Li-Ion / IP68 / IS	\$159.80
Icom IC-F3210D / IC-F4210D			
SEE LISTING FOR: Icom IC-F3001 / IC-F3002 / IC-F3003 / IC-F4001 / IC-F4002 / IC-F4003 (REFERENCE BATTERY: BP264MH-1)			
Icom IC-F3230 (DT/DS) / IC-F4230 (DT/DS)			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-F3261 (DT/DS) / IC-F4261 (DT/DS)			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-F3263 (DT/DS) / IC-F4263 (DT/DS)			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
Icom IC-F3360 (DT/DS) / IC-F4360 (DT/DS)			
BP232LIWP	BP232WP	7.4V / 2200 mAh / Li-Ion / IP67	\$75.80
IC-F3400 (D/DT/DS) / IC-F3400 (DP/DPT/DPS) / IC-F4400 (D/DT/DS) / IC-F4400 (DP/DPT/DPS) / IC-F7010 (T/S) / IC-F7020 (T/S)			
BP284LI	BP-284	7.2V / 3200 mAh / Li-Ion / clip / IP68	\$159.80
CLV113A *	N/A	Battery clip	\$11.80
* = clip not interchangeable with Icom MB-133			
Icom IC-F50 / IC-F50V / IC-F60 / IC-F60V			
BP227LI	BP227	7.2V / 1800 mAh / Li-Ion / clip	\$84.40
CL227	N/A	Battery clip (screw-on)	\$11.00
Icom IC-F52D / IC-F62D			
BP290LI	BP-290	7.2V / 2010 mAh / Li-Ion / clip / IP68	\$89.80
BP294LI	BP-294	7.2V / 3150 mAh / Li-Ion / clip / IP68	\$119.80
CLV113A *	N/A	Battery clip	\$11.80
* = clip not interchangeable with Icom MB-133			
Icom IC-F70 (DS/DT/S/T) / IC-F80 (DS/DT/S/T)			
BP254LI	BP254	7.4V / 3040 mAh / Li-Ion	\$137.00
Icom IC-F9011 (T/S/B) / IC-F9021 (T/S/B)			
BP254LI	BP254	7.4V / 3040 mAh / Li-Ion	\$137.00
Icom IC-T70A / IC-T70E			
SEE LISTING FOR: Icom IC-F3001 / IC-F3002 / IC-F3003 / IC-F4001 / IC-F4002 / IC-F4003 (REFERENCE BATTERY: BP264MH-1)			
Icom IC-V8			
SEE LISTING FOR: Icom IC-A24 / IC-A6 (REFERENCE BATTERY: BP210N)			
Icom IC-V80			
SEE LISTING FOR: Icom IC-F3001 / IC-F3002 / IC-F3003 / IC-F4001 / IC-F4002 / IC-F4003 (REFERENCE BATTERY: BP264MH-1)			
Icom IC-V82 / IC-U82			
SEE LISTING FOR: Icom IC-A24 / IC-A6 (REFERENCE BATTERY: BP210N)			
Icom IP100H / ID-31A / ID-31E / ID-51A / ID-51E			
BP272LI	BP272	7.4V / 2000 mAh / Li-Ion / clip / IP68	\$86.00
CLV113A *	N/A	Battery clip	\$11.80
* = clip not interchangeable with Icom MB-133			
Kenwood NX200 / NX200G / NX200S / NX300 / NX300G / NX300S			
BPKNB47L	KNB47L	7.4V / 1900 mAh / Li-Ion	\$105.40
BPKNB48L	KNB48L	7.4V / 2500 mAh / Li-Ion	\$108.60

Part Number	OEM	Description	MSRP
BPKNB48LI-48	KNB48L	7.4V / 4800 mAh / Li-Ion	\$130.40
PMKNB48LIP	KNB48L	7.4V / 3500 mAh / LiPo / PolyMax HPC	\$130.40

Kenwood NX210 / NX210G

BP5631-1 *	KNB31A	7.2V / 1400 mAh / NiCd	\$80.00
BP5632MH	KNB32N / KNB54N	7.2V / 2500 mAh / NiMH	\$87.80
BP5633LI	KNB33L	7.4V / 1900 mAh / Li-Ion	\$87.80
BPKNB49PL **	KNB49PL	9.0 V / 4500 mAh / Li-MnO ₂ (non-rechargeable)	\$96.80
LEKNB41MHIS	KNB41NC	7.2V / 2500 mAh / NiMH / IP64 / IS	\$119.80
PMKNB43LIP	KNB43L	7.4V / 4100 mAh / LiPo / PolyMax HPC	\$145.00

* = special order item / ** = special order - non-rechargeable, primary lithium battery

Kenwood NX220 / NX320 / NX420

BPKNB57LIXT	KNB57L	7.4V / 2300 mAh / Li-Ion	\$97.20
BP5635LI	KNB35L / KNB57L	7.4V / 1900 mAh / Li-Ion	\$87.80
BPKNB55LIP	KNB55L	7.4V / 1800 mAh / LiPo	\$69.20
BP5626MH-1	KNB26N / KNB56N	7.2V / 2000 mAh / NiMH	\$63.80
BPKNB25-1	KNB25A	7.2V / 1200 mAh / NiCd	\$59.00
BPKNB25CSOR	N/A	Alkaline clamshell - orange	\$43.60
LEKNB40LIIS	KNB40LCV / KNB68LC	7.4V / 1900 mAh / Li-Ion / IP64 / IS	\$119.80
PMKNB57LIP	KNB35L / KNB57L	7.4V / 3500 mAh / LiPo / PolyMax HPC	\$134.60
PMKNB78LIP	KNB78	7.4V / 3000 mAh / LiPo / PolyMax HPC	\$117.80

Kenwood NX240V / NX340U

BPKNB29MHXT-1	KNB29N	7.5V / 2100 mAh / NiMH	\$52.40
BPKNB45LI	KNB45L	7.4V / 1900 mAh / Li-Ion	\$69.80
BPKNB45LI-1 *	KNB45L	7.4V / 1800 mAh / Li-Ion	\$65.80
BPKNB69LI	KNB69L	7.4V / 2550 mAh / Li-Ion	\$95.60

Kenwood NX410 / NX411

SEE LISTING FOR: Kenwood NX210 / NX210G (REFERENCE BATTERY: BP5633LI)

Kenwood NX1000 / NX1200 / NX1300

SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY: BPKNB45LI)

Kenwood NX3200 / NX3220 / NX3300 / NX3320 / NX3400 / NX3420

SEE LISTING FOR: Kenwood NX220 / NX320 / NX420 (REFERENCE BATTERY: BP5635LI)

Kenwood NX5000 / NX5200 / NX5300 / NX5400

BPKNBL2LI-26	KNBL2M	7.4V / 2600 mAh / Li-Ion / IP67	\$109.40
BPKNBL2LI-34	KNBL3M	7.4V / 3400 mAh / Li-Ion / IP67	\$137.80
BPKNBL3LI-48 *	KNBL3M	7.4V / 4800 mAh / Li-Ion / IP67	\$165.80
LEKNBL2LIIS	KNBLS5	7.4V / 3400 mAh / Li-Ion / IP67 / IS	\$179.80
PMKNBL2LIP-41	KNBL3M	7.4V / 4100 mAh / LiPo / IP67	\$145.80

* = special order item

Kenwood TK190 / TK280 / TK290 / TK380 / TK390

BP5617-1	KNB17A	7.2V / 1200 mAh / NiCd	\$57.40
BP5617MH	KNB22N	7.2 V / 2000 mAh / NiMH	\$69.60
BPKNB17-1	KNB17A	7.2V / 1500 mAh / NiCd	\$61.00

Kenwood TK2100 / TK3100 / TK3101

BP5615-1	KNB15A	7.2V / 1200 mAh / NiCd	\$50.80
BP5615MH	KNB20N	7.2V / 2000 mAh / NiMH	\$68.60

Kenwood TK2140 / TK2160 / TK2170 / TK3140 / TK3160 / TK3170 / TK3173

SEE LISTING FOR: Kenwood NX220 / NX320 / NX420 (REFERENCE BATTERY: BP5635LI)

Kenwood TK2180 / TK3180

SEE LISTING FOR: Kenwood NX210 / NX210G (REFERENCE BATTERY: BP5633LI)

Kenwood TK2200 / TK2200L / TK2200LP / TK3200 / TK3200L / TK3200LP (ProTalk)

SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)

Part Number	OEM	Description	MSRP
Kenwood TK2212L / TK3212L			
SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)			
Kenwood TK2300 / TK2300VP / TK3300 / TK3300UP (ProTalk)			
SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)			
Kenwood TK2302VK / TK3302UK			
SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)			
Kenwood TK2312 / TK3312			
SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)			
Kenwood TK2360 / TK3360			
SEE LISTING FOR: Kenwood NX220 / NX320 / NX420 (REFERENCE BATTERY: BP5635LI)			
Kenwood TK2400VP / TK3400UP			
SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)			
Kenwood TK2402VK / TK3402UK			
SEE LISTING FOR: Kenwood NX240V / NX340U (REFERENCE BATTERY BPKNB45LI)			
Kenwood TK250 / TK350 / TK353 / TK259 / TK359 (black)			
BP5611	KNB11A	7.2V / 900 mAh / NiCd (short case)	\$51.80
BP5612-1	KNB12A	7.2V / 1200mAh / NiCd (long case)	\$55.60
BP5612MH	KNB12A	7.2V / 1800 mAh / NiMH (long case)	\$65.60
Kenwood TK260 / TK260G / TK270 / TK360 / TK360G / TK370 / TK370G			
SEE LISTING FOR: Kenwood TK2100 / TK3100 / TK3101 (REFERENCE BATTERY BP5615MH)			
Kenwood TK272G / TK372G / TK373G			
SEE LISTING FOR: Kenwood TK2100 / TK3100 / TK3101 (REFERENCE BATTERY BP5615MH)			
Kenwood TK3130 / TK3131			
BPKNB27MH	KNB27	3.6V / 1400 mAh / NiMH	\$40.60
Kenwood TK3230XLS / ProTalk XLS			
BPKNB46LI	KNB46L	3.7V / 2000 mAh / Li-Ion	\$65.80
Kenwood TK430 / TK431			
BP5612-1 *	KNB9 / KNB12	7.2V / 1200 mAh / NiCd	\$55.60
* = housing color black / 2.93" height			
Kenwood TK480 / TK481			
SEE LISTING FOR: Kenwood TK190 / TK280 / TK290 / TK380 / TK390 (REFERENCE BATTERY: BP5617MH)			
Kenwood TK5210 / TK5210G / TK5310 / TK5310G			
SEE LISTING FOR: Kenwood NX210 / NX210G (REFERENCE BATTERY: BP5633LI)			
Kenwood TK5220 / TK5320			
SEE LISTING FOR: Kenwood NX200 / NX200G / NX200S / NX300 / NX300G / NX300S (REFERENCE BATTERY: BPKNB47L)			
Kenwood TK5230 / TK5330 / TK5430			
SEE LISTING FOR: Kenwood NX5000 / NX5200 / NX5300 / NX5400 (REFERENCE BATTERY: BPKNBL2LI-34)			
Kenwood TK5400			
SEE LISTING FOR: Kenwood TK190 / TK280 / TK290 / TK380 / TK390 (REFERENCE BATTERY: BP5617MH)			
Kenwood TK5410			
SEE LISTING FOR: Kenwood NX210 / NX210G (REFERENCE BATTERY: BP5633LI)			
FOR M/A-COM BATTERIES SEE L3HARRIS LISTING			

Part Number	OEM	Description	MSRP
Maxon Comm-panion CP0510 / CP0510HD / CP0515 / CP0520 / SP-5050D / TAD1510 / TAD1510S / TAD1520			
BP4W	BP4 / BP4C	11.3V / 600 mAh / NiCd	\$36.60
Maxon SL100			
BPQPA1350 *	ACC-206	7.2V / 1500 mAh / NiMH (button for clip)	\$64.00
* = special order item			
Maxon SL25 / SL55 / SP120			
BPQPA1200 *	QPA-1200	7.5V / 1200 mAh / NiCd / clip	\$59.00
* = special order item			
Maxon SL400 / SL600			
BP1155 *	SA1155 / 1255	10.8V / 600 mAh / NiCd (short)	\$67.00
BP1170 *	SA1170 / 1270	10.8V / 1200 mAh / NiCd (long)	\$73.20
* = special order item			
Maxon SP130 / SP130U / SP132U2 / SP140 / SP140U / SP140U2 / SP150			
BPMPA1200-1 *	MPA1200	7.5V / 1200 mAh / NiCd / clip	\$60.00
BPMPA1550MH *	MPA1550	7.5 V / 1800 mAh / NiMH / clip	\$76.80
* = special order item			
Maxon SP310 / SP320 / SP330 / SP340			
BPACC200-1 *	ACC-200	7.2V / 1000 mAh / NiCd / clip	\$61.40
BPACC200MH	ACC-200HC	7.2V / 1600 mAh / NiMH / clip	\$66.80
CL9628	N/A	Battery clip	\$11.80
* = special order item			
Maxon SP2000 / SP2250 / SP2500 / SP2550 / SP2850			
SEE LISTING FOR: Maxon SL400 / SL600 (REFERENCE BATTERY: BP1170)			
Maxon SP200V2			
BPQPA1350 *	ACC-206	7.2V / 1500 mAh / NiMH (button for clip)	\$64.00
* = special order item			
Maxon / Legacy: PL2215 / PL2245			
BP5615-1	KNB15A	7.2V / 1200 mAh / NiCd	\$50.80
BP5615MH	KNB20N	7.2V / 2000 mAh / NiMH	\$68.60
BPACC202MH	ACC-202	7.2V / 2000 mAh / NiMH	\$71.00
Note: Radios require EC1-KW1A charger when used with BP5615 / BPKNB15-1 / BP5615MH.			
Maxon / Legacy: PL2415 / PL2445			
SEE LISTING FOR: Maxon / Legacy: PL2215 / PL2245 (REFERENCE BATTERY: BPACC202MH)			
Midland 70-440BP			
BP18-B02MH *	18-B02	7.2V / 1500 mAh / NiMH / clip	\$65.60
* = special order item			
Midland PL5000 Series / PL5161 / PL5164			
SEE LISTING FOR: Maxon / Legacy: PL2215 / PL2245 (REFERENCE BATTERY: BPACC202MH)			
Midland SP220 / SP230 / SP240 / SP250			
BPQPA1350 *	ACC-206	7.2V / 1500 mAh / NiMH (button for clip)	\$64.00
* = special order item			
Midland SP410 / SP420 / SP430 / SP440			
BP18-B02MH *	18-B02	7.2V / 1500 mAh / NiMH / clip	\$65.60
* = special order item			
Midland STP-105B / STP-404A (APCO P25)			
BPACC1800LIS	ACC-1800	7.4V / 1800 mAh / Li-Ion / smart	\$164.20
Regency / Relm: HH400 / HH2500 / Mini-Comm 1 / Mini-Comm 2			
BP4W	BP4 / BP4C	11.3V / 600 mAh / NiCd	\$36.60
FOR RELM / BK / KNG BATTERIES SEE BK TECHNOLOGIES LISTING			
Ritron Patriot RTX150 / RTX450			
BPX8NMH *	BTX-8NMH	9.6V / 1650 mAh / NiMH	\$71.20
BPX8NXT *	BTX-8N	9.6V / 1000 mAh / NiCd	\$60.20
* = special order item			

Part Number	OEM	Description	MSRP
Simoco SRP9070 / SRP9080 / SRP9170 / SRP9180			
BP9180LIPXT *	PAR-9180BATL3	7.4V / 3600 mAh / LiPo	\$159.80
* = special order item			
Standard HX580 / HX581T / HX582T			
BP584 *	CNB584A	9.6V / 1100 mAh / NiCd	\$67.60
* = special order item			
Tait Orca 5000 Series			
BPTOPB500	TOPB100H	7.2V / 2150 mAh / NiMH / clip	\$79.60
CLTOPB500	N/A	Battery clip	\$11.80
Tait TP3000 / TP3300 / TP3550			
BPT0300330LI	T03-00330-AAAA	7.4V / 2300 mAh / Li-Ion / IP68	\$74.80
Tait TP8100 / TP8110 / TP8115 / TP8120 / TP8135 / TP8140			
BPBA100LI	TPK-BA-100	7.2V / 1900 mAh / Li-Ion / clip	\$103.20
BPT0300011LI-29	T03-00011-CAAA	7.2V / 2900 mAh / Li-Ion / clip / IP68	\$132.20
CLBA100	N/A	Battery clip	\$11.80
Tait TP9100 / TP9135 / TP9140 / TP9155 / TP9160			
BPBA203MH	TPA-BA-203	7.2V / 2400 mAh / NiMH / clip / smart	\$122.20
BPBA206LI	TPA-BA-206	7.4V / 2500 mAh / Li-Ion / clip / smart	\$134.80
CLBA100	N/A	Battery clip	\$11.80
Tait TP9300 / TP9355 / TP9360 / TP9400 / TP9435 / TP9440 / TP9445 / TP9460 / TP9600 / TP9655 / TP9660			
BPT0300011LI-29	T03-00011-CAAA	7.2V / 2900 mAh / Li-Ion / clip / IP68	\$132.20
CLBA100	N/A	Battery clip	\$11.80
Uniden APH / APL / APU			
BP4W	BP4 / BP4C	11.3V / 600 mAh / NiCd	\$36.60
Uniden SPS801 / SPS802 / SPS155 / SPS454R			
BP1105	APX1105	7.2V / 1200 mAh / NiCd	\$60.40
Uniden SPU51 / SPH51			
BP1120	APX1120	7.5V / 1200 mAh / NiCd	\$59.40
Vertex Standard EVX261 / EVX530 / EVX531 / EVX534 / EVX539			
BPV134LI	FNB-V134LI-UNI	7.4V / 2500 mAh / Li-Ion / clip / IP68	\$82.80
CLV113	N/A	Battery clip	\$11.80
Vertex Standard EVX-S24			
BP4468LI	FNB-V142LI *	3.7V / 2300 mAh / Li-Ion	\$49.80
* = also AAM01X001			
Vertex Standard EVX-Z61 / EVX-Z69			
BPV143LI	FNB-V143LI	7.4V / 2500 mAh / Li-Ion / IP68	\$79.60
Vertex Standard FT10R / FT40R / FT50 / VX10			
BP36247-1	FNB-47	7.2V / 1200 mAh / NiCd / clip	\$66.00
BP36247MH	FNB-49	7.2V / 2000 mAh / NiMH / clip	\$79.40
CL36247	N/A	Battery clip	\$11.80
Vertex Standard FT2003 / FT4703 / FTC703A / FTC708A / FTC2203 / FTC2205 / FTC5203			
BP4W	BP4 / BP4C	11.3V / 600 mAh / NiCd	\$36.60
Vertex Standard VX130 / VX150 / VX160 / VX180 / VX210 / VX400 / VX410 / VX420			
BP36257-1	FNB-V57	7.2V / 1000 mAh / NiCd	\$53.40
BP36257MHXT	FNB-V83	7.2V / 1600 mAh / NiMH	\$53.00
BP36267LI	FNB-V67LI	7.2V / 2200 mAh / Li-Ion	\$67.20
BPV94MH-1	FNB-V94	7.2V / 1800 mAh / NiMH	\$47.20
Vertex Standard VX230 / VX231			

Part Number	OEM	Description	MSRP
BPV103LI	FNB-V103LI	7.4V / 1200 mAh / Li-Ion	\$65.00
BPV104LI	FNB-V104LI	7.4V / 2200 mAh / Li-Ion	\$77.40
BPV106MH-1	FNB-V106	7.2V / 1200 mAh / NiMH	\$48.40
BPV132LI	FNB-V132LI-UNI	7.4V / 2500 mAh / Li-Ion / IP68	\$72.40

Vertex Standard VX260 / VX261 / VX264

BPV134LI	FNB-V134LI-UNI	7.4V / 2500 mAh / Li-Ion / clip / IP68	\$82.80
CLV113	N/A	Battery clip	\$11.80

Vertex Standard VX350 / VX351 / VX354

BP36295LI	FNB-V95LI / FNB-V96LI	7.4V / 2200 mAh / Li-Ion	\$63.00
BPV130LI	FNB-V130LI-UNI	7.4V / 2500 mAh / Li-Ion / IP68	\$51.00

Vertex Standard VX450 / VX451 / VX454 / VX459

BPV113LI	FNB-V113LI	7.4V / 2500 mAh / Li-Ion / clip (thick housing)	\$90.20
BPV134LI	FNB-V134LI-UNI	7.4V / 2500 mAh / Li-Ion / clip / IP68	\$82.80
CLV113	N/A	Battery clip (BPV134LI)	\$11.80
CLV113A *	N/A	Battery clip (BPV113LI)	\$11.80

* = clip not interchangeable with Icom MB-133

Vertex Standard VX500 / VX510 / VX520 / VX520UD / VX530 / VX537

BP36229MH	FNB-29A	7.2V / 2000 mAh / NiMH	\$68.60
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Vertex Standard VX600 / VX600V / VX600U / VX900 / VX900V / VX900U

BP36268LI	FNB-V68LI	7.4V / 2200 mAh / Li-Ion	\$88.20
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Vertex Standard VX800

BP36262LI	FNB-V62LI	7.2V / 2200 mAh / Li-Ion	\$69.40
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Vertex Standard VX820 / VX821 / VX824 / VX829 / VXP821 / VXP824 / VXP829

BP36287LI	FNB-V87LI	7.4V / 2200 mAh / Li-Ion	\$76.40
BP36292LI	FNB-V92LI	7.4V / 3000 mAh / Li-Ion	\$112.80
BPV128LI	FNB-V128LI *	7.4V / 2500 mAh / Li-Ion / IP68	\$73.60

* = also AAJ62X001

Vertex Standard VX870 / VX871 / VX874 / VX879 / VXP871 / VXP874 / VXP879

SEE LISTING FOR: Vertex Standard VX820 / VX821 / VX824 / VX829 (REFERENCE BATTERY: BP36287LI)

Vertex Standard VX920 / VX921 / VX924 / VX929 / VXP921 / VXP924 / VXP929

SEE LISTING FOR: Vertex Standard VX820 / VX821 / VX824 / VX829 (REFERENCE BATTERY: BP36287LI)

Vertex Standard VX970 / VX971 / VX974 / VX979 / VXP971 / VXP974 / VXP979

SEE LISTING FOR: Vertex Standard VX820 / VX821 / VX824 / VX829 (REFERENCE BATTERY: BP36287LI)

Vertex Standard VXD720

BP4065MH	PMNN4065A	7.2V / 1600 mAh / NiMH / clip	\$77.60
BP4077LI-27	PMNN4077C	7.2V / 2700 mAh / Li-Ion / clip	\$89.80
BP4077LIXT	PMNN4077C	7.2V / 2500 mAh / Li-Ion / clip / smart	\$106.60
LE4069LIIS	PMNN4069A	7.4V / 2200 mAh / Li-Ion / clip / IP64 / smart / IS	\$129.80
CL7144	N/A	Battery clip	\$11.80

Wilson / HH Series

BP4W	BP4 / BP4C	11.3V / 600 mAh / NiCd	\$36.60
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PAGER BATTERIES**Motorola BPR2000 / Dimension 2000 / Keynote**

BP7057	NLN7057A	1.25V / 600 mAh / NiCd	\$6.40
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Motorola Dimension IV / Dimension 1000 / Director / Metro-Pageboy III / Minitor / Pagecom / PMR2000 / Spirit

BP6965	NLN6965A	1.2V / 150 mAh / NiCd	\$11.40
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Motorola Director II / Minitor II

BP4974MH	NLN4974	2.6V / 300 mAh / NiMH	\$8.40
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Part Number	OEM	Description	MSRP
Motorola Minitor III / IV			
BP250AAA	NYN8345	1.2V / 250 mAh / NiCd	\$3.20
Motorola Minitor V			
BP5707MH	RLN5707	3.6V / 600mAh / NiMH	\$26.40
Motorola Minitor VI			
BP4451LI	PMNN4451	3.7V / 1150 mAh / Li-Ion / IP68	\$27.20
FRS RADIO BATTERIES			
Motorola Spirit GT Plus			
BP9720MH	HNN9720B	3.6V / 700 mAh / NiMH	\$44.00
Motorola Talkabout T4900 / T5320 / T5400 / T5410 / T5420 / T5600 / T5620 / T5700 / T5710 / T5720 / T5800 / T5820 / T5950			
BP4002 *	HKNN4002	3.6V / 700 mAh / NiCd	\$16.80
BP4002MH-1	HKNN4002A	3.6V / 1500 mAh / NiMH	\$12.20
* = special order item			
RECHARGEABLE FLASHLIGHT BATTERIES			
Maglite ML-5000			
BP522	20170	6.0V / 2200 mAh / NiCd	\$38.20
Streamlight SL-15X / SL-20XP			
BP25170	25170	6.0V / 1600 mAh / NiCd	\$36.60
Streamlight SL-20 / SL-20S / SL-20X			
BP522	20170	6.0V / 2200 mAh / NiCd	\$38.20
Streamlight Stinger / PolyStinger			
BP75175	75175	3.6V / 1800 mAh / NiCd	\$29.40
Streamlight Super Stinger / Ultra Stinger / SL-20L / SL-20XP-LED			
BP77175	77175	3.6V / 1600 mAh / NiCd	\$29.40
ALKALINE BATTERIES			
GP Ultra Value Packs			
GP15AU-2VS40	GP15AU	GP Ultra AA alkaline battery (package of 40)	\$23.20
GP24AU-2VS20	GP24AU	GP Ultra AAA alkaline battery (package of 20)	\$11.60

Part Number	OEM	Description	MSRP
G2G BATTERIES - USB CABLE INCLUDED			
Motorola APX900 / APX1000 / APX2000 / APX3000 / APX4000			
G2G4409	PMNN4409	7.4V / 2600 mAh / Li-Ion / clip	\$139.00
Motorola APX6000 / APX7000 / APX8000			
G2G7038	PMNN7038	7.4V / 2500 / Li-Ion / smart	\$159.00
Motorola CP150 / CP200 / CP200d / CP250 / EP450 / PR400			
G2G4497	NNTN4497AR	7.4V / 2600 mAh / Li-Ion / clip	\$139.00
Motorola GP320 / GP340 / GP360 / GP380 / GP640 / GP680 / GP1280			
G2G9013	HNN9013DR	7.4V / 2000 mAh / LiPo / clip	\$119.00
Motorola HT750 / HT1250 / HT1550 / PRO5150 / PRO7150 / PRO9150 / PR860			
G2G9013	HNN9013DR	7.4V / 2000 mAh / LiPo / clip	\$119.00
Motorola MTX850 / MTX850LS / MTX950 / MTX960 / MTX8250LS / MTX9250			
G2G9013	HNN9013DR	7.4V / 2000 mAh / LiPo / clip	\$119.00
Motorola XPR3300 / XPR3500 / XPR7350 / XPR7380 / XPR7550 / XPR7580 / MOTOTRBO Series			
G2G4409	PMNN4409	7.4V / 2600 mAh / Li-Ion / clip	\$139.00
Motorola XPR6100 / XPR6300 / XPR6350 / XPR6380 / XPR6500 / XPR6550 / XPR6580 / MOTOTRBO Series			
G2G4077	PMNN4077C	7.4V / 2600 mAh / Li-Ion / clip	\$139.00
Motorola XTS1500 / XTS2500 / MT1500 / PR1500			
G2G9858	PMNN4595	7.4V / 2500 mAh / Li-Ion / clip	\$119.00
Motorola XTS3000 / XTS3500 / XTS5000 / Cosmo / Datron Guardian G25RPV100 Series			
G2G8299	NNTN6034A	7.4V / 3000 mAh / LiPo / clip	\$139.00
BK Technologies (Bendix-King Radios): DPH / EPH / GPH / LPA / LPH / LPX			
G2G170	LAA0170	11.1V / 2200 mAh / Li-Ion	\$139.00
EF Johnson 5100 Series / 51SL ES / Ascend ES			
G2G8299	NNTN6034A	7.4V / 3000 mAh / LiPo / clip	\$139.00
Hytera PD702 / PD702i / PD752 / PD752i / PD782 / PD782i			
BPBL2006LI	BL2006	7.4V / 2000 mAh / Li-Ion (slim housing)	\$119.00
Icom IC-A14 / IC-A14S			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F14 / IC-F15 / IC-F24 / IC-F25 / IC-F33 / IC-F34 / IC-F43 / IC-F43TR / IC-F44			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3011 / IC-F3013 / IC-F4011 / IC-F4013			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3021 (T/S) / IC-F3023 (T/S) / IC-F4021 (T/S) / IC-F4023 (T/S)			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3031S / IC-F4031S			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3161 (DT/DS/T/S) / IC-F3163 (T/S) / IC-F4161 (DT/DS/T/S) / IC-F4163 (T/S)			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3230 (DT/DS) / IC-F4230 (DT/DS)			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00

Part Number	OEM	Description	MSRP
Icom IC-F3261 (DT/DS) / IC-F4261 (DT/DS)			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3263 (DT/DS) / IC-F4263 (DT/DS)			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Icom IC-F3360 (DT/DS) / IC-F4360 (DT/DS)			
G2G232	BP232WP	7.4V / 2600 mAh / Li-Ion	\$119.00
Kenwood NX200 / NX200G / NX200S / NX300 / NX300G / NX300S			
G2GKNB48	KNB48L	7.4V / 2500 mAh / Li-Ion	\$139.00
Kenwood NX220 / NX320 / NX420			
G2GKNB57	KNB57L	7.4V / 2000 mAh / Li-Ion	\$119.00
Kenwood NX1000 / NX1200 / NX1300			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood NX3000 / NX3200 / NX3220 / NX3300 / NX3320 / NX3400 / NX3420			
G2GKNB57	KNB57L	7.4V / 2000 mAh / Li-Ion	\$119.00
Kenwood NX5000 / NX5200 / NX5300 / NX5400			
G2GKNBL2	KNBL2	7.4V / 2600 mAh / Li-Ion	\$139.00
Kenwood TK2140 / TK2160 / TK2170 / TK3140 / TK3160 / TK3170 / TK3173			
G2GKNB57	KNB57L	7.4V / 2000 mAh / Li-Ion	\$119.00
Kenwood TK2200 / TK2200L / TK2200LP / TK3200 / TK3200L / TK3200LP (ProTalk)			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK2212L / TK3212L			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK2300 / TK2300VP / TK3300 / TK3300UP (ProTalk)			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK2302VK / TK3302UK			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK2312 / TK3312			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK2360 / TK3360			
G2GKNB57	KNB57L	7.4V / 2000 mAh / Li-Ion	\$119.00
Kenwood TK2400VP / TK3400UP			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK2402VK / TK3402UK			
G2GKNB45	KNB45L	7.4V / 1900 mAh / Li-Ion	\$119.00
Kenwood TK5220 / TK5320			
G2GKNB48	KNB48L	7.4V / 2500 mAh / Li-Ion	\$139.00
Kenwood VP5230 / VP5330 / VP5430			
G2GKNBL2	KNBL2	7.4V / 2600 mAh / Li-Ion	\$139.00
Kenwood VP6230 / VP6330 / VP6430			
G2GKNBL2	KNBL2	7.4V / 2600 mAh / Li-Ion	\$139.00



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EC1C-BK2 – Single Unit Calibrating Charger For KNG Batteries (2-Year Warranty)		
PN	Description	MSRP
EC1C-BK2	ENDURA CALIBRATING CHARGER FOR BK KNG RADIOS Calibrates / charges batteries for KNG-P150, KNG-P400, KNG-P500, KNG-P800, KNG2-P150, KNG2-P400, KNG2-P500, KNG2-P800. Includes AC to DC power supply.	\$139.80

EC Single Unit – Low Profile Radio Specific Chargers (1-Year Warranty)		
PN	Description	MSRP
EC-4173	ENDURA LOW PROFILE SINGLE UNIT CHARGER FOR MOTOROLA CP150 Also Charges: CP200, CP200d, CP250, PR400. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Reverse position of insert clip as needed for NiMH or Li-Ion battery.	\$57.80
EC-KSC25	ENDURA LOW PROFILE SINGLE UNIT CHARGER FOR KENWOOD TK2140 Also Charges: NX220, NX320, NX420, NX3200, NX3220, NX3300, NX3320, NX3400, NX3420, TK2160, TK2170, TK2360, TK3140, TK3160, TK3170, TK3173, TK3360. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Compatible with KNB-68LC (IS battery).	\$57.80
EC-KSC32	ENDURA LOW PROFILE SINGLE UNIT CHARGER FOR KENWOOD NX200 Also Charges: NX200S, NX210, NX210G, NX300, NX300S, NX410, NX411, NX5200, NX5300, NX5400, TK2180, TK3180, TK5210, TK5210G, TK5220, TK5230, TK5310, TK5310G, TK5320, TK5330, TK5410, TK5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Compatible with KNB-41NC / KNB-50NC (IS batteries). Not compatible with KNB-73LCM / KNB-72LC (IS batteries).	\$57.80

EC Six Unit Radio Specific Chargers (1-Year Warranty)		
NOTE: CHARGERS LISTED BELOW ARE DESIGNED FOR SPECIFIC RADIOS / BATTERIES AND NOT COMPATIBLE WITH OTHER PODS.		
PN	Description	MSRP
EC6M-MT3	ENDURA 6-UNIT CHARGER FOR MOTOROLA CP150 Also Charges: CP200, CP200d, CP250, PR400. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Reverse position of insert clip as needed for NiMH or Li-Ion battery. Replaces PMLN6588.	\$498.00
EC6M-MT10A	ENDURA 6-UNIT CHARGER FOR MOTOROLA BPR40 Also Charges: Motorola Mag One, BearCom BC130. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Replaces PMPN4184.	\$498.00
EC6M-HY4	ENDURA 6-UNIT CHARGER FOR HYTERA PD502 / PD602 / PD702 Also Charges: Hytera PD402, PD402i, PD412, PD502i, PD506, PD562, PD562i, PD602G, PD602i, PD606, PD606G, PD662, PD662G, PD662i, PD682, PD682G, PD682i, PD702G, PD702i, PD705, PD706, PD708, PD752, PD752G, PD752i, PD782, PD782G, PD782i, PD785, PD786, PD788, PD792Ex, PD982, PD792i, PT580H / Harris HDP100, HDP150. For use with Li-Ion / LiPo batteries, including Hytera BL2411-Ex (IS). Replaces MCA08.	\$438.00
EC6M-V2-HY6	ENDURA 6-UNIT CHARGER FOR HYT TC-518 Also Charges: TC-508, TC-508U, TC-508V, TC-518U, TC-518V, TC-580. For use with Li-Ion / LiPo batteries only. Replaces MCL15.	\$438.00
EC6M-HY7	ENDURA 6-UNIT CHARGER FOR HYT TC-320 Also Charges: TC-320U. For use with Li-Ion / LiPo batteries only. Replaces PS4001 with CH05L01.	\$438.00



EC6M-HY9	ENDURA 6-UNIT CHARGER FOR HYTERA BD502 Also Charges: BD502i, BD552, BD552i. For use with Li-Ion / LiPo batteries only. Replaces MCL19.	\$498.00
EC6M-TA4	ENDURA 6-UNIT CHARGER FOR TAIT TP3000 Also Charges: TP3300, TP3350. For use with Li-Ion / LiPo batteries only. Replaces T03-00320-AAAA.	\$438.00
EC6M-VX7	ENDURA 6-UNIT CHARGER FOR VERTEX EVX530 SERIES Also Charges: Vertex Standard EVX531, EVX534, EVX539, VX230, VX231, VX260, VX261, VX264, VX350, VX351, VX354, VX450, VX451, VX454, VX459. For use with Li-Ion / LiPo UNI batteries (including FNB-V134LIIS). Replaces VAC-6058.	\$498.00

Endura "V3" Chargers For Motorola APX6000 / APX7000 / APX8000 (2-Year Warranty)		
NOTE: CHARGERS LISTED BELOW ARE DESIGNED FOR SPECIFIC RADIOS / BATTERIES AND NOT COMPATIBLE WITH OTHER PODS.		
PN	Description	MSRP
EC1V3-MT19T	ENDURA SINGLE UNIT SMART CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. For use with NiMH, Li-Ion, and LiPo batteries. Includes V3 specific charging pod, 100V - 240V AC power supply, and user manual. Compatible with all OEM batteries, including PMNN4547A.	\$79.80
EC1MV3-MT19T	ENDURA IN-VEHICLE SMART CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. Includes V3 specific charging pod, vehicle power adapter, mounting bracket with tie-down strap, and user manual. For use with NiMH, Li-Ion, and LiPo batteries. Compatible with all OEM batteries, including PMNN4547A.	\$100.80
EC6MV3-MT19T	ENDURA SIX-UNIT SMART CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. For use with NiMH, Li-Ion, and LiPo batteries. Includes V3 specific charging pod, 100V - 240V AC power supply, and user manual. Compatible with all OEM batteries, including PMNN4547A.	\$638.00
EC2MV3-MT19T-D	ENDURA DUAL UNIT SMART CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. For use with NiMH, Li-Ion, and LiPo batteries. Includes V3 specific dual charging pod, 100V - 240V AC power supply, and user manual. Compatible with all OEM batteries, including PMNN4547A.	\$136.80
EC12MV3-MT19T-D	ENDURA TWELVE-UNIT SMART CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Includes six V3 specific dual charging pods, 100V - 240V AC power supply, and user manual. Compatible with all OEM batteries, including PMNN4547A.	\$970.00

Endura Chargers With Replaceable Single Position Pods (2-Year Warranty)		
NOTE: PRICE LISTED INCLUDES CHARGING POD(S) OF CHOICE. SEE LISTING ON PAGES 4-9. SOME PODS REQUIRE "V2" CHARGERS.		
PN	Description	MSRP
EC1 / EC1-V2	ENDURA SINGLE UNIT CHARGER W/ POD. Select pod from list on pages 4-9 and note compatibility with EC1 or EC1-V2. Includes 100V - 240V AC power supply and user manual. CEC and DOE certified.	\$74.80
EC1M / EC1M-V2	ENDURA SINGLE UNIT IN-VEHICLE CHARGER W/ POD. Select pod from list on pages 4-9 and note compatibility with EC1M or EC1M-V2. Includes vehicle power adapter, mounting bracket with tie-down strap, and user manual. CEC and DOE certified.	\$96.80
EC6M / EC6M-V2	ENDURA SIX UNIT CHARGER W/ PODS. Includes external power supply and 6 charging pods. Select specific pod(s) and quantity each from list on pages 4-9 and note compatibility with EC6M or EC6M-V2. CEC and DOE certified.	\$618.00

Endura Chargers With Replaceable Dual Position Pods (2-Year Warranty)		
NOTE: PRICE LISTED INCLUDES CHARGING POD(S) OF CHOICE. SEE LISTING ON PAGES 9-10.		
PN	Description	MSRP
EC2M	ENDURA DUAL UNIT CHARGER W/ DUAL POD. Select from list on pages 9-10. Includes 100V - 240V AC power supply and user manual. CEC and DOE certified.	\$132.80
EC12M	ENDURA TWELVE-UNIT CHARGER WITH SIX DUAL PODS. Select from list on pages 9-10. Includes 100V / 240V AC power supply and user manual. CEC and DOE certified.	\$950.00



Notes For Ordering EC1, EC1M, EC6M, EC2M, And EC12M With Pod(s)

The price listed for these models includes the charging pod(s). Using the pods TWP-KW3 and TWP-KW3-D as examples, the chart below shows the part number to order for each charging base.

Charger Base	Pod Selected (As Example)	PN To Use When Ordering (Charger With Pod)	Comments
EC1	TWP-KW3	EC1-KW3	Listings on pages 4-9 identify compatible pods for EC1, EC1M, and EC6M.
EC1M	TWP-KW3	EC1M-KW3	Listings on pages 4-9 identify compatible pods for EC1, EC1M, and EC6M.
EC6M	TWP-KW3	EC6M (quantity 1) TWP-KW3 (quantity 6)	Charger is shipped with pods installed unless requested otherwise. See pages 4-9 for listing of pods for EC6M.
EC2M	TWP-KW3-D	EC2M-KW3-D	Listings on pages 9-10 identify compatible pods for EC2M / EC12M.
EC12M	TWP-KW3-D	EC12M (quantity 1) TWP-KW3-D (quantity 6)	Charger is shipped with pods installed unless requested otherwise. See pages 9-10 for listing of pods for EC12M / EC12M.

Endura EVC In-Vehicle Chargers (2-Year Warranty)		
NOTE: INCLUDES DC POWER CABLE, FASTENERS FOR MOUNTING, AND USER MANUAL.		
PN	Description	MSRP
EVC-BK2	ENDURA RUGGED IN-VEHICLE CHARGER FOR BKT KNG RADIOS Also Charges: KNG-P150, KNG-P400, KNG-P500, KNG-P800, KNG2-P150, KNG2-P400, KNG2-P500, KNG2-P800. Includes tie-down strap and USB port for charging mobile phone or tablet. For use with Li-Ion / LiPo batteries only. Note: With 12V electrical systems, requires DC-DC converter to achieve full charge of KNG battery.	\$238.00
EVC-BK2-4	ENDURA 4-UNIT IN-VEHICLE CHARGER FOR BKT KNG RADIOS Also Charges: KNG-P150, KNG-P400, KNG-P500, KNG-P800, KNG2-P150, KNG2-P400, KNG2-P500, KNG2-P800. Includes DC power cable with locking XLR connector. For use with Li-Ion / LiPo batteries only.	\$1,418.00
EVC-HA3	ENDURA RUGGED IN-VEHICLE CHARGER FOR HARRIS XL-200P Also Charges: XL-185P, XL-185Pi, XL-200Pi. Includes tie-down strap and USB port for charging mobile phone or tablet. For use with Li-Ion / LiPo batteries only.	\$238.00
EVC-HA3-D	ENDURA 4-UNIT IN-VEHICLE CHARGER FOR HARRIS XL-200P Also Charges: XL-185P, XL-185Pi, XL-200Pi. Includes DC power cable with locking XLR connector. For use with Li-Ion / LiPo batteries only.	\$1,418.00
EVC-KW4	ENDURA RUGGED IN-VEHICLE CHARGER FOR KENWOOD NX5000 Also Charges: NX200, NX200S, NX210, NX210G, NX300, NX300S, NX410, NX411, NX5200, NX5300, NX5400, TK2180, TK3180, TK5210, TK5210G, TK5220, TK5230, TK5310, TK5310G, TK5320, TK5330, TK5410, TK5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430. Includes tie-down strap and USB port for charging mobile phone or tablet. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Compatible with KNB-41NC / KNB-73LCM / KNB-50NC (IS batteries). Not compatible with KNB-72LC / KNB-LS5 (IS batteries).	\$238.00
EVC-KW4-D	ENDURA 4-UNIT IN-VEHICLE CHARGER FOR KENWOOD NX5000 Also Charges: NX200, NX200S, NX210, NX210G, NX300, NX300S, NX410, NX411, NX5200, NX5300, NX5400, TK2180, TK3180, TK5210, TK5210G, TK5220, TK5230, TK5310, TK5310G, TK5320, TK5330, TK5410, TK5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430. Includes DC power cable with locking XLR connector. For use with NiCd, NiMH, Li-Ion, and LiPo batteries. Compatible with KNB-41NC / KNB-73LCM / KNB-50NC (IS batteries). Not compatible with KNB-72LC / KNB-LS5 (IS batteries).	\$1,418.00
EVC-MT13	ENDURA RUGGED IN-VEHICLE CHARGER FOR MOTOROLA XTS2500 Also Charges: MT1500, PR1500, XTS1500, XTS3000, XTS3500, XTS5000 / EF Johnson 5100 series, 51SL ES, Ascend ES. Includes tie-down strap and USB port for charging mobile phone or tablet. For use with NiCd, NiMH, Li-Ion, and LiPo batteries.	\$238.00
EVC-MT13-D	ENDURA 4-UNIT IN-VEHICLE CHARGER FOR MOTOROLA XTS2500 Also Charges: MT1500, PR1500, XTS1500, XTS3000, XTS3500, XTS5000 / EF Johnson 5100 series, 51SL ES, Ascend ES. Includes DC power cable with locking XLR connector. For use with NiCd, NiMH, Li-Ion, and LiPo batteries.	\$1,418.00
EVC-MT19	ENDURA RUGGED IN-VEHICLE CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX8000, APX8000XE. Available for APX7000, APX7000XE by special order. Includes DC power cable, tie-down strap, and USB port for charging mobile phone or tablet. For use with Li-Ion, LiPo, and NiMH batteries.	\$238.00
EVC-MT19-4	ENDURA 4-UNIT IN-VEHICLE CHARGER FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX8000, APX8000XE. Includes DC power cable with locking XLR connector. For use with Li-Ion, LiPo, and NiMH batteries.	\$1,418.00

Accessories For Endura Chargers (2-Year Warranty)		
PN	Description	MSRP
EC1M-MB	MOUNTING BRACKET FOR ENDURA EC1M CHARGER. (Included with EC1M and EC1M-V2.) Bracket may be used for wall or floor mounting. Includes integrated tie-down strap and fasteners.	\$31.80



EC2M-MB (Optional Accessory)	MOUNTING BRACKET FOR ENDURA EC2M CHARGER. Bracket may be used for wall or floor mounting. Includes integrated tie-down straps and fasteners.	\$42.80
EC6M-MB (Optional Accessory)	MOUNTING BRACKET FOR ENDURA EC6M / EC12M CHARGERS. Bracket may be used for wall or floor mounting. Includes integrated tie-down straps and fasteners.	\$117.00
EVC-HW	ENDURA EVC CHARGER DC POWER CABLE. Supplies DC power to charger from vehicle battery or other connection point. Length: 9.8' / 3.0 meters. Included with EVC single position chargers.	\$27.80
EVC-MB4	MOUNTING BRACKET FOR ENDURA EVC CHARGERS. Allows mounting of 4 EVC chargers for a rugged 4-unit in-vehicle charging solution. Includes DC power cable (EVC-DC-XLR) and fasteners for mounting 4 EVC chargers.	\$394.00
EVC-VPA (Optional Accessory)	VEHICLE POWER ADAPTER FOR ENDURA EVC IN-VEHICLE CHARGERS. Supplies power to the charger from a vehicle's 12V or 24V outlet. Length: 28" / 71 cm. Straight cable.	\$19.00
LEVCA-DC-XLR	ENDURA EVC 4-UNIT CHARGER DC POWER CABLE. (Included with EVC-xx-4 models.) Supplies DC power from a 12V - 24V source. Length: 3.0 meters (16 AWG). Connector: XLR type (NC3FRX).	\$99.80
LEVCA-M (Optional Accessory)	MOUNTING BRACKET FOR ENDURA EVC / LOGIC LEVCA CHARGERS Attaches charger to dash or other angled surface. Includes fasteners.	\$21.80
LEVCA-MHD (Optional Accessory)	HEAVY DUTY MOUNTING BRACKET FOR EVC / LOGIC CHARGERS Attaches charger to floor or other angled surface. Includes fasteners.	\$31.80
TWC1-PS	POWER SUPPLY FOR ENDURA EC1 / TWC1 CHARGERS. (Included with EC1, EC1-V2, and EC1V3.) Input: 100V – 240V / 50 – 60 Hz / 500 mA. Output: 15.0V / 1000 mA. UL listed.	\$21.00
TWC1-PS2	POWER SUPPLY FOR ENDURA EC LOW PROFILE CHARGERS (Included with EC low profile models.) Input: 100-240V / 50-60 Hz / 500 mA. Output: 15.0V / 1000 mA. UL listed.	\$19.00
TWC2M-PS	POWER SUPPLY FOR ENDURA EC2M / TWC2M CHARGER. (Included with EC2M.) Input: 100V – 240V / 50 – 60 Hz / 580 mA. Output: 15.0V / 1.6A. UL listed.	\$27.00
TWC6M-PS	POWER SUPPLY FOR ENDURA EC6M / TWC6M CHARGERS. (Included with EC6M / EC6M-V2.) Input: 100V - 240V / 50 - 60 Hz / 2.0A. Output: 15.0V / 5.4A. UL listed.	\$67.00
TWC6M-PC	U.S. POWER CORD FOR TWC6M-PS POWER SUPPLY. (Included with EC6M / EC6M-V2.) Approximate length 2.4 m / 7.8'. Connects to TWC6M-PS (power supply) and U.S. type wall outlet (120V AC).	\$19.00
TWC6M-VPA (Optional Accessory)	VEHICLE POWER ADAPTER FOR ENDURA EC1M / EC2M / EC6M. Supplies power to the charger from a vehicle's 12V or 24V outlet. Features a heavy-duty coiled cord and user replaceable fuse.	\$36.80
TWC6M-HW (Optional Accessory)	HARD WIRE KIT FOR ENDURA EC1M / EC2M / EC6M / EC12M. Supplies DC power to charger from vehicle battery or other connection point.	\$34.80
TWC12M-PS	POWER SUPPLY FOR ENDURA EC12M CHARGERS. (Included with EC12M.) Input: 100 - 240V / 50 - 60 Hz / 2.2A. Output: 15.0V / 12.5A. UL listed.	\$125.00
TWC12M-PC	U.S. POWER CORD FOR TWC12M-PS POWER SUPPLY. (Included with EC12M.) Approximate length 2.4 m / 7.8'. Connects to TWC12M-PS (power supply) and U.S. type wall outlet (120V AC).	\$19.00

Pricing For Single & Dual Position Pods (2-Year Warranty)

PN	Description	MSRP
TWP-xx	SINGLE POSITION CHARGING POD FOR ENDURA EC1 / EC1M / EC6M / EC1-V2 / EC1M-V2 / EC6M-V2. See listing immediately below.	\$23.00
TWP-xx-D	DUAL POSITION CHARGING POD FOR ENDURA EC2M / EC12M. See listing on pages 9-10.	\$41.80

Single Position Charging Pods (For EC1 / EC1M / EC6M / V2 Versions)

Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-MT2 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA EX500 / HT750 / MTX850 Also Charges: DP3441, EX560-XLS, EX600, EX600-XLS, GP320, P340, GP360, GP380, GP640, GP680, GP1280, HT1250, HT1250-LS+, HT1550-XLS, MTX850LS, MTX950, MTX8250, MTX8250-LS, MTX9250, PR860, PRO5150, PRO7150, PRO9150, HT750, HT1250, HT1550, MTX850, MTX850LS, MTX950, MTX8250LS, MTX9250, PRO5150, PRO7150, PRO9150.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT3 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA CP150 Also Charges: CP200, CP200d, CP250, EP450, PR400. Note: Pod features a unique design that allows use with either Li-Ion or NiMH batteries.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT4 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA CT150 Also Charges: CT250, CT450, CT450LS, PRO 3150.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-MT5A (Motorola)	ENDURA CHARGER POD FOR MOTOROLA HT600 Also Charges: HT800, MT1000, MTX800, MTX900, Radius P200, P210.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-MT6A (Motorola)	ENDURA CHARGER POD FOR MOTOROLA MX1000 Also Charges: MX2000, MX3000, Saber, Astro Saber.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT7A (Motorola)	ENDURA CHARGER POD FOR MOTOROLA GP300 Also Charges: GP350, GP600, GTX, LTS2000, MTX638, PTX600, Radius P110, P1225, P1325.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH



Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-MT8A (Motorola)	ENDURA CHARGER POD FOR MOTOROLA CP125 Also Charges: AX series, GP2000, PRO 2150, BearCom BC120.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-MT9 (Motorola)	ENDURA CHARGER POD FOR GP900 Also Charges: GP1200, HT1000, JT1000, Mobius, MT2000, MTS2000, MTX8000, MTX9000, MTZ2000.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT10A (Motorola)	ENDURA CHARGER POD FOR MOTOROLA BPR40 Also Charges: Motorola Mag One, BearCom BC130.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT11A (Motorola)	ENDURA CHARGER POD FOR MOTOROLA RADIUS P10 Also Charges: P50+ (see note), SP10, SP50, HT10. Note: For model SP50+ charges battery only.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MT12 (Motorola)	ENDURA CHARGER POD WITH INSERT FOR MOTOROLA SABER Also Charges: Astro Saber, HT1000, MX1000, XTS2500, XTS3000, XTS5000. Note: By correctly positioning insert bracket included, pod can accommodate all radio models listed above.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT13B (Motorola)	ENDURA CHARGER POD FOR MOTOROLA XTS2500 / XTS5000 Also Charges: Motorola MT1500, PR1500, XTS1500, XTS3000, XTS3500, Cosmo / EF Johnson 5100 series, 51SL ES, Ascend ES, VP400, VP600, VP900.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT14 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA VISAR	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-MT15 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA CP100 Also Charges: XTN series.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-MT16B (Motorola)	ENDURA CHARGER POD FOR MOTOROLA XPR3000, XPR7000 Also Charges: APX900, APX1000, APX2000, APX3000, APX4000, XPR3300, DEP550e, DEP570e, DGP5050e, DGP5550e, DGP8050e, DGP8550e, XPR3300e, XPR3500, XPR3500e, XPR6100, XPR6300, XPR6350, XPR6380, XPR6500, XPR6550, XPR6580, XPR7350, XPR7350e, XPR7380, XPR7380e, XPR7550, XPR7550e, XPR7580, XPR7580e, DP2400, DP2600, DP4400, DP4600, DP4800, Vertex Standard VXD720.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT17 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA CP110 / RDX SERIES Also Charges: RDU2020, RDU2023, RDU2080d, RDU4100, RDU4103d, RDU4160d, RDU4163d, RDV2020, RDV2080d, RDV5100. Note: Position pod insert clip as needed for standard or high capacity battery.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-MT18 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA CP185 / EP350 Also Charges: CP100d, CP476, CP477, CP1300, CP1600, CP1660, P140, P145, P160, P165, P180, P185.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT19B (Motorola)	ENDURA CHARGER POD FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. Note: Compatible with all Power Products and OEM batteries, including PMNN4547.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT20 (Motorola)	ENDURA CHARGER POD FOR MOTOROLA RM SERIES Also Charges: RMM2050, RMU2080, RMU2040, RMU2043, RMU2080d, RMV2080, XT420, XT460.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-BK1 (BK Technologies)	ENDURA CHARGER POD FOR BK TECHNOLOGIES / BK DPH Also Charges: EPH, GPH, LPA, LPH, LPX.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH / Li-Ion / LiPo
TWP-BK2 (BK Technologies)	ENDURA CHARGER POD FOR BK TECHNOLOGIES KNG SERIES Also Charges: KNG-P150, KNG-P400, KNG-P500, KNG-P800, KNG2-P150, KNG2-P400, KNG2-P500, KNG2-P800.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-MT13B (EF Johnson)	ENDURA CHARGER POD FOR MOTOROLA XTS2500 / XTS5000 Also Charges: Motorola MT1500, PR1500, XTS1500, XTS3000, XTS3500, Cosmo / EF Johnson 5100 series, 51SL ES, Ascend ES, VP400, VP600, VP900.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-IC2A (EF Johnson)	ENDURA CHARGER POD FOR ICOM IC-F3 Also Charges: EF Johnson 7500 series, Falcon 7500.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH / Li-Ion / LiPo
TWP-HA1A (Harris)	ENDURA CHARGER POD FOR HARRIS P5400 SERIES Also Charges: P5300, P5350, P5370, P5450, P5470, P5550, P5570, P7300, P7350, P7370, XG-15P, XG-25P, XG-75P.	Not compatible with TWC1 / TWC6M.	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-HA2LI (Harris)	ENDURA CHARGER POD FOR HARRIS UNITY Also Charges: XG-100P. Note: For Li-Ion / LiPo batteries only.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-HA2MH (Harris)	ENDURA CHARGER POD FOR HARRIS UNITY Also Charges: XG-100P. Note: For NiCd / NiMH batteries only.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-HA3C (Harris)	ENDURA CHARGER POD FOR HARRIS XL-200P Also Charges: XL-150P, XL-185P, XL-185Pi, XL-200Pi. Note: Requires charger with EC1V1K firmware. Not compatible with earlier versions. Compatible with all L3Harris batteries including: XL-PA4K / 14035-5050-01 and XL-PA4M / 14035-5050-04.	Not compatible with TWC1 / TWC6M.	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-HY4 (Harris)	ENDURA CHARGER POD FOR HYTERA DMR PD502 / PD602 / PD702 Also Charges: Harris HDP100, HDP150.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-HY8 (Harris)	ENDURA CHARGER POD FOR HYTERA X1e / X1ei Also Charges: Harris HDP250 / Momentum, Hytera X1p, X1pi, Z1p.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo



Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-MC1B (Harris)	ENDURA CHARGER POD FOR HARRIS P7100 Also Charges: Harris P5100, P5130, P5150, P5200, P7130, P7150, P7170, P7200, P7230, P7250, P7270, M/A-COM Jaguar 700P, 700Pi, 710P, SPD2000. Note: Pod designed for charging Power Products and OEM batteries, including: BP1912-1, BP1912MH, LE1912MHIS, BKB191210/33, BKB191210/34, and BKB191210/36 models.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MC1BLI (Harris)	ENDURA CHARGER POD FOR HARRIS P7100 Also Charges: Harris P5100, P5130, P5150, P5200, P7130, P7150, P7170, P7200, P7230, P7250, P7270, M/A-COM Jaguar 700P, 700Pi, 710P, SPD2000. Note: Designed for charging Power Products and OEM Li-Ion / LiPo batteries, including: PM1912LIP, BT-01942-001, and BT-01942-002.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-HY1 (Hytera / HYT)	ENDURA CHARGER POD FOR HYT TC-500, Blackbox UHF / VHF	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-HY2 (Hytera / HYT)	ENDURA CHARGER POD FOR HYT TC-610 Also Charges: TC-610P, TC-620.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-HY3 (Hytera / HYT)	ENDURA CHARGER POD FOR HYT TC-700 / TC-780 Also Charges: TC-700U, TC-700V, TC-780M, TC-780U, TC-780V.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-HY4 (Hytera / HYT)	ENDURA CHARGER POD FOR HYTERA DMR PD502 / PD602 / PD702 Also Charges: Hytera PD402, PD402i, PD412, PD502i, PD506, PD562, PD562i, PD602G, PD602i, PD606, PD606G, PD662, PD662G, PD662i, PD682, PD682G, PD682i, PD702G, PD702i, PD705, PD706, PD708, PD752, PD752G, PD752i, PD782, PD782G, PD782i, PD785, PD786, PD788, PD792Ex, PD982, PD792i, PT580H / Harris HDP100, HDP150. Note: Charges Hytera BL2411-Ex (IS).	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-HY5 (Hytera / HYT)	ENDURA CHARGER POD FOR HYT TC-600 Also Charges: TC-600U, TC-600V.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-HY6 (Hytera / HYT)	ENDURA CHARGER POD FOR HYT TC-508 / TC-518 Also Charges: TC-508U, TC-508V, TC-518U, TC-518V, TC-580.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-HY7 (Hytera / HYT)	ENDURA CHARGER POD FOR HYT TC-320 Also Charges: TC-320U.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-HY8 (Hytera / HYT)	ENDURA CHARGER POD FOR HYTERA X1e / X1ei Also Charges: Harris HDP250 / Momentum, Hytera X1p, X1pi, Z1p.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-HY9 (Hytera / HYT)	ENDURA CHARGER POD FOR HYTERA BD502 Also Charges: BD502i, BD552, BD552i.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-RE1 (Hytera / HYT)	ENDURA CHARGER POD FOR RELM RPU3000 / HYT TC-3000 Also Charges: HYT TC-3600.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-IC1 (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3GT Also Charges: IC-A6, IC-A24, IC-F3GS, IC-F4GS, IC-F4GT, IC-F11, IC-F11S, IC-F12, IC-F12S, IC-F21, IC-F21BR, IC-F21GM, IC-F21S, IC-F30GS, IC-F30GT, IC-F30LT, IC-F31GS, IC-F31GT, IC-F40GS, IC-F40GT, IC-F40LT, IC-F41GS, IC-F41GT, IC-U82, IC-V8, IC-V82. Note: For NiCd batteries only.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd Only
TWP-IC1LI (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3GT Also Charges: IC-A6, IC-A24, IC-F3GS, IC-F4GS, IC-F4GT, IC-F11, IC-F11S, IC-F12, IC-F12S, IC-F21, IC-F21BR, IC-F21GM, IC-F21S, IC-F30GS, IC-F30GT, IC-F30LT, IC-F31GS, IC-F31GT, IC-F40GS, IC-F40GT, IC-F40LT, IC-F41GS, IC-F41GT, IC-U82, IC-V8, IC-V82.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-IC1AMH	ENDURA CHARGER POD FOR ICOM IC-F3GT Also Charges: IC-A6, IC-A24, IC-F3GS, IC-F4GS, IC-F4GT, IC-F11, IC-F11S, IC-F12, IC-F12S, IC-F21, IC-F21BR, IC-F21GM, IC-F21S, IC-F30GS, IC-F30GT, IC-F30LT, IC-F31GS, IC-F31GT, IC-F40GS, IC-F40GT, IC-F40LT, IC-F41GS, IC-F41GT, IC-U82, IC-V8, IC-V82.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-IC2A (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3 Also Charges: IC-A4, IC-F3S, IC-F4, IC-F4S, IC-F4TR, IC-T2A, EF Johnson 7500 series, Falcon 7500.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-IC3B (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3161 / IC-F4161 Also Charges: IC-F14, IC-F15, IC-F24, IC-F24S, IC-F33GS, IC-F33GT, IC-F34GS, IC-F34GT, IC-F43GS, IC-F43GT, IC-D43TR, IC-F44GS, IC-F44GT, IC-F3011, IC-F3021, IC-F3023, IC-F3031S, IC-F3033S, IC-F3163, IC-F3230 (DT/DS), IC-F3261 (DT/DS), IC-F3263, IC-F3360 (DT/DS), IC-F4011, IC-F4021, IC-F4023, IC-F4031S, IC-F4033S, IC-F4163, IC-F4230 (DT/DS), IC-F4261 (DT/DS), IC-F4263, IC-F4360 (DT/DS).	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-IC4 (Icom)	ENDURA CHARGER POD FOR ICOM IC-F50 Also Charges: IC-F50V, IC-F51, IC-F60, IC-F60V, IC-F61, IC-M88.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-IC5A (Icom)	ENDURA CHARGER POD FOR ICOM IC-F70 / IC-F80 Also Charges: IC-F70DS, IC-70DT, IC-F70S, IC-F70T, IC-F80DS, IC-F80DT, IC-F80S, IC-F80T, IC-F9011, IC-F9021.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-IC6ALI (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3001 / IC-F4001 / IC-V80 Also Charges: IC-F3002, IC-F3003, IC-F3101D, IC-F3103D, IC-F3210D, IC-F4002, IC-F4003, IC-F4101D, IC-F4103D, IC-F4210D, IC-T70A, IC-T70E.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo



Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-IC6MH (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3001 / IC-F4001 / IC-V80 Also Charges: IC-F3002, IC-F3003, IC-F3101D, IC-F3103D, IC-F3210D, IC-F4002, IC-F4003, IC-F4101D, IC-F4103D, IC-F4210D, IC-T70A, IC-T70E.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiMH
TWP-IC7LI (Icom)	ENDURA CHARGER POD FOR ICOM IC-F1000 (D/T/S) Also Charges: IC-F1100 (D/DT/DS), IC-F2000 (D/T/S), IC-F2100 (D/DT/DS), BearCom BC1000.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-IC8LI (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3400 (DT/DS/D) Also Charges: IC-F52D, IC-F62D, IC-F4400 (DT/DS/D), IC-F7010 (T/S), IC-F7020 (T/S), IC-F7040 (T/S).	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-IC9LI (Icom)	ENDURA CHARGER POD FOR ICOM IP100H / IP501H Also Charges: ID-31A, ID-31E, ID-51A, ID-51E.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-KW1A (Kenwood)	ENDURA CHARGER POD FOR KENWOOD TK190 Also Charges: TK260, TK260G, TK270, TK272G, TK280, TK290, TK360, TK360G, TK370, TK370G, TK372G, TK380, TK390, TK480, TK481, TK490, TK2100, TK2102, TK3100, TK3101, TK3102, TK5400, Midland PL2215, PL2245, PL2415, PL2445, PL5161, PL5164, Relm RPU416, RPU499, RPV516, RPV599, HYT TC-268, TC-368. Note: Midland radios listed are compatible with TWP-KW1A only when used with BP5615-1 / BP5615MH.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-KW3 (Kenwood)	ENDURA CHARGER POD FOR KENWOOD TK2140 Also Charges: NX220, NX320, NX420, NX3200, NX3220, NX3300, NX3320, NX3400, NX3420, TKD200, TKD300, TK2160, TK2170, TK2360, TK3140, TK3160, TK3170, TK3173, TK3360. Note: Compatible with KNB-68LC (IS battery). Not compatible with KNB-79LC (IS battery).	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-KW4A (Kenwood)	ENDURA CHARGER POD FOR KENWOOD NX200 / NX5200 / TK2180 Also Charges: NX200S, NX210, NX300, NX300S, NX410, NX411, NX5300, NX5400, TK3180, TK5210, TK5210G, TK5220, TK5230, TK5310, TK5310G, TK5320, TK5330, TK5410, TK5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430. Note: Compatible with VP6000 radios with KNB-L1 / L2 / L3 batteries. Compatible with KNB-41NC / KNB-73LCM (IS batteries). Not compatible with KNB-50NC / KNB-72LC / KNB-LS5 (IS batteries).	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-KW5 (Kenwood)	ENDURA CHARGER POD FOR KENWOOD TK250 Also Charges: TK259, TK350, TK353, TK359, TK430, TK431.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-KW6 (Kenwood)	ENDURA CHARGER POD FOR KENWOOD TK2200 / TK3200 Also Charges: NX240, NX340, NX1000, NX1200, NX1300, TK2000, TK2200L, TK2200LP, TK2207, TK2212L, TK2300, TK2300VP, TK2302VK, TK2307, TK2312, TK2400VP, TK2402VK, TK3000, TK3200L, TK3200LP, TK3207, TK3212L, TK3300, TK3300UP, TK3302UK, TK3307, TK3312, TK3400UP, TK3402UK. Note: Pod designed for use with either BPKNB45LI or BPKNB29MHXT-1.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-KW7 (Kenwood)	ENDURA CHARGER POD FOR KENWOOD TK3230XLS Also Charges: ProTalk XLS.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-MC1B (M/A-COM)	ENDURA CHARGER POD FOR HARRIS P7100 / JAGUAR 700P Also Charges: M/A-COM 700Pi, 710P, P5130, P5150, P5200, P7100, P7200, SPD2000. Note: Pod designed for charging Power Products and OEM batteries, including: BP1912-1, BP1912MH, LE1912MHIS, BKB191210/33, BKB191210/34, and BKB191210/36.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MC1BLI (M/A-COM)	ENDURA CHARGER POD FOR HARRIS P7100 / JAGUAR 700P Also Charges: M/A-COM 700Pi, 710P, P5130, P5150, P5200, P7100, P7200, SPD2000. Note: Designed for charging Power Products and OEM Li-Ion / LiPo batteries, including: PM1912LIP, BT-01942-001, and BT-01942-002.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	Li-Ion / LiPo
TWP-MC2A (M/A-COM)	ENDURA CHARGER POD FOR M/A-COM EDACS 300P	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MC3A (M/A-COM)	ENDURA CHARGER POD FOR M/A-COM KPC300 Also Charges: KPC400, LPE200, Prism HP, Panther 500P. Note: For use with BP1202 and BP1202MH (long housing) only.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MC4 (M/A-COM)	ENDURA CHARGER POD FOR M/A-COM PCS	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MC5 (M/A-COM)	ENDURA CHARGER POD FOR M/A-COM MPA	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-MC6 (M/A-COM)	ENDURA CHARGER POD FOR M/A-COM MR-K I Also Charges: MR-K II, Comnet.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M-V2 / EC6M-V2	NiCd / NiMH
TWP-TA1 (M/A-COM)	ENDURA CHARGER POD FOR TAIT ORCA 5000 SERIES Also charges: M/A-COM Cougar 400P, 600P, 605P, 625P and Panther 400P, 600P, 625P.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH



Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-MX1A (Maxon)	ENDURA CHARGER POD FOR MAXON SL100 Also Charges: Maxon SP200V2, Midland SP220, SP230, SP240, SP250.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	NiCd / NiMH
TWP-MX2A (Maxon)	ENDURA CHARGER POD FOR MAXON SL25 Also Charges: Maxon SL55, SP120, SP130, SP130U, SP132U2, SP140, SP140U, SP140U2, SP150, SP310, SP320, SP330, SP340.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	NiCd / NiMH
TWP-MX3 (Maxon)	ENDURA CHARGER POD FOR MAXON SP1000 SERIES Also Charges: Maxon SP1102, SP1402.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-MX4 (Maxon)	ENDURA CHARGER POD FOR MAXON HL-1500 SERIES Also Charges: Maxon HeadLine HL-1511, HL-1521.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-MX5 (Maxon)	ENDURA CHARGER POD FOR MAXON SP-7000 SERIES Also Charges: Maxon SP-7102, SP-7402.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-MX6 (Maxon)	ENDURA CHARGER POD FOR TECNET TJ-3000 SERIES Also Charges: TJ-3100V, TJ-3400U.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	Li-Ion / LiPo
TWP-MX7 (Maxon)	ENDURA CHARGER POD FOR TECNET TP-8000 SERIES Also Charges: TP-8102, TP-8102BTA, TP-8402, TP-8402BTA.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-MD1 (Midland)	ENDURA CHARGER POD FOR MIDLAND 70-440BP Also Charges: Midland 80-125, 80-150, 80-400, 80-425, SP410, SP420, SP430, SP440.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	NiCd / NiMH
TWP-MD2A (Midland)	ENDURA CHARGER POD FOR MIDLAND STP SERIES Also Charges: STP-105B, STP-404A.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	Li-Ion / LiPo
TWP-KW1A (Midland)	ENDURA CHARGER POD FOR KENWOOD TK190 Also Charges: Midland PL2215, PL2245, PL2415, PL2445, PL5161, PL5164. Note: Midland radios listed are compatible with TWP-KW1A only when used with BP5615-1 / BP5615MH batteries.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-RE1 (BK Technologies)	ENDURA CHARGER POD FOR RELM RPU3000 / HYT TC-3000 / TC-3600 Also Charges: Relm RPU3600, RPU3600A, RPV3000, RPV3600, RPV3600A.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	Li-Ion / LiPo
TWP-KW1A (BK Technologies)	ENDURA CHARGER POD FOR KENWOOD TK190 Also Charges: Relm RPU416, RPU499, RPV516, RPV599.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-TA1 (Tait)	ENDURA CHARGER POD FOR TAIT ORCA 5000 SERIES Also charges: M/A-COM Cougar 400P, 600P, 605P, 625P and Panther 400P, 600P, 625P.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH
TWP-TA2 (Tait)	ENDURA CHARGER POD FOR TAIT TP8100 / TP9300 / TP9400 / TP9600 SERIES Also Charges: TP8110, TP8115, TP8135, TP8120, TP8140, TP9355, TP9360, TP9435, TP9440, TP9445, TP9460, TP9655, TP9660.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-TA3 (Tait)	ENDURA CHARGER POD FOR TAIT 9100 SERIES Also Charges: TP9135, TP9140, TP9155, TP9160.	Not compatible with TWC1 / TWC1M / TWC6M.	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-TA4 (Tait)	ENDURA CHARGER POD FOR TAIT TP3000 SERIES Also Charges: TP3300, TP3350.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-TK1 (Tekk)	ENDURA CHARGER POD FOR TEKK XT10 Also Charges: XT40, XT800, XT900.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-VX1 (Vertex)	ENDURA CHARGER POD FOR VERTEX VX130 Also Charges: Vertex Standard VX150, VX160, VX180, VX210, VX400, VX410, VX420, VX800, BearCom BC95. Note: Charges VX230, VX231, BC95 with NiMH battery only (BPV106MH-1, FNB- V106).	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	NiCd / NiMH / Li-Ion / LiPo
TWP-VX2 (Vertex)	ENDURA CHARGER POD FOR VERTEX VX600 Also Charges: Vertex Standard VX900.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-VX3 (Vertex)	ENDURA CHARGER POD FOR VERTEX VX820 / VX920 Also Charges: Motorola / Vertex Standard VX821, VX824, VX829, VX870, VX871, VX874, VX879, VXP821, VXP824, VXP829, VXP871, VXP874, VXP879, VX920, VX921, VX924, VX929, VX970, VX971, VX974, VX979, VXP921, VXP924, VXP929, VXP971, VXP974, VXP979.	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	NiCd / NiMH / Li-Ion / LiPo
TWP-VX4A (Vertex)	ENDURA CHARGER POD FOR VERTEX VX230 Also Charges: Vertex Standard VX231, VX350, VX351, VX354. Note: Charges VX230 / VX231 with Li-Ion battery only (BPV104LI / FNB-V104LI). For VX230 with NiMH battery, use TWP-VX1. Charges VX350 / VX351 / VX354 with Li-Ion battery only (BP36295LI / FNB-V96LI).	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	Li-Ion / LiPo
TWP-VX5 (Vertex)	ENDURA CHARGER POD FOR VERTEX VX530 Also Charges: Vertex Standard VX500, VX510, VX510MU, VX530, VX520UD, VX537.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	NiCd / NiMH
TWP-VX6 (Vertex)	ENDURA CHARGER POD FOR VERTEX VX450 Also Charges: Vertex Standard VX451, VX454, VX459. Includes insert which allows low and high capacity batteries to be charged based on positioning in pod.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	Li-Ion / LiPo



Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-VX7 (Vertex)	ENDURA CHARGER POD FOR VERTEX EVX261/ EVX530 SERIES Also Charges: Vertex Standard EVX531, EVX534, EVX539, VX230, VX231, VX260, VX261, VX264, VX350, VX351, VX354, VX450, VX451, VX454, VX459, VX821, VX824, VX829, VX870, VX871, VX874, VX879, VXP820, VXP821, VXP824, VXP829, VXP871, VXP874, VXP879, VX920, VX921, VX924, VX929, VX970, VX971, VX974, VX979, VXP920, VXP921, VXP924, VXP929, VXP971, VXP974, VXP979. Note: Charges these batteries – BPV128LI, BPV130LI, BPV132LI, BPV134LI, FNB-V126LI-UNI, FNB-V127LI-UNI, FNB-V128LI-UNI, FNB-V129LI-UNI, FNB-V130LI-UNI, FNB-V131LI-UNI, FNB-V132LI-UNI, FNB-V133LI-UNI, FNB-V134LI-UNI, FNB-V134LIIS (intrinsically safe).	TWC1 / TWC1M / TWC6M	EC1 / EC1M / EC6M	Li-Ion / LiPo
TWP-VX8 (Vertex)	ENDURA CHARGER POD FOR VERTEX EVX-Z61 / BEARCOM BC250D Also Charges: Vertex Standard EVX-Z69.	TWC1 / TWC1M / TWC6M	EC1-V2 / EC1M- V2 / EC6M-V2	Li-Ion / LiPo

Dual Position Charging Pods (For EC2M / EC12M)				
Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-MT2-D (Motorola)	ENDURA CHARGER POD FOR MOTOROLA EX500 / HT750 / MTX850 Also Charges: DP3441, EX560-XLS, EX600, EX600-XLS, GP320, P340, GP360, GP380, GP640, GP680, GP1280, HT1250, HT1250-LS+, HT1550-XLS, MTX850LS, MTX950, MTX8250, MTX8250-LS, MTX9250, PR860, PRO5150, PRO7150, PRO9150, HT750, HT1250, HT1550, MTX850, MTX850LS, MTX950, MTX8250LS, MTX9250, PRO5150, PRO7150, PRO9150.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT3-D (Motorola)	ENDURA DUAL POD FOR MOTOROLA CP150 Also Charges: CP200, CP200d, CP250, EP450, PR400. Note: Pod features a unique design that allows use with either Li-Ion or NiMH batteries.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT10-D (Motorola)	ENDURA CHARGER POD FOR MOTOROLA BPR40 Also Charges: Motorola Mag One, BearCom BC130.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT13-D (Motorola)	ENDURA DUAL POD FOR MOTOROLA HT1000 / XTS2500 / XTS5000 Also Charges: GP900, GP1200, JT1000, MT1500, MT2000, MTS2000, MTX8000, MTX9000, MTZ2000, PR1500, XTS1500, XTS3000, XTS3500, Cosmo / EF Johnson 5100 series, 51SL ES, Ascend ES, VP400, VP600, VP900.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT16A-D (Motorola)	ENDURA DUAL POD FOR MOTOROLA XPR3000, XPR7000 Also Charges: APX900, APX1000, APX2000, APX3000, APX4000, XPR3300, DEP550e, DEP570e, DGP5050e, DGP5550e, DGP8050e, DGP8550e, XPR3300e, XPR3500, XPR3500e, XPR6100, XPR6300, XPR6350, XPR6380, XPR6500, XPR6550, XPR6580, XPR7350, XPR7350e, XPR7380, XPR7380e, XPR7550, XPR7550e, XPR7580, XPR7580e, DP2400, DP2600, DP4400, DP4600, DP4800, Vertex Standard VXD720.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT18-D (Motorola)	ENDURA DUAL POD FOR MOTOROLA CP185 Also Charges: CP100d, CP476, CP477, CP1300, CP1600, CP1660, EP350, P140, P145, P160, P165, P180, P185.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-MT19B-D (Motorola)	ENDURA DUAL POD FOR MOTOROLA APX6000 Also Charges: APX6000XE, APX7000, APX7000XE, APX8000, APX8000XE. Note: Compatible with all Power Products and OEM batteries, including PMNN4547.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-BK2A-D (BK Technologies)	ENDURA DUAL POD FOR BK TECHNOLOGIES KNG SERIES Also Charges: KNG-P150, KNG-P400, KNG-P500, KNG-P800, KNG2-P150, KNG2-P400, KNG2-P500, KNG2-P800.	Not compatible with TWC2M / TWC12M.	EC2M / EC12M	Li-Ion / LiPo
TWP-MT13-D (EFJohnson)	ENDURA DUAL POD FOR MOTOROLA HT1000 / XTS2500 / XTS5000 Also Charges: EF Johnson 5100 series, 51SL ES, Ascend ES, VP400, VP600, VP900.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-HA1A-D (Harris)	ENDURA DUAL POD FOR HARRIS P5400 SERIES Also Charges: P5300, P5500, P7350, P7370, XG-15P, XG-25P, XG-75P.	Not compatible with TWC2M / TWC12M.	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-HA2ALI-D (Harris)	ENDURA DUAL POD FOR HARRIS P7100 / UNITY Also Charges: M/A-COM Jaguar 700P, 700Pi, 710P / Harris P5100, P5130, P5150, P5200, P7130, P7150, P7170, P7200, P7230, P7250, P7270, SPD2000, XG-100P.	Not compatible with TWC2M / TWC12M.	EC2M / EC12M	Li-Ion / LiPo
TWP-HA2AMH-D (Harris)	ENDURA DUAL POD FOR HARRIS P7100 / UNITY Also Charges: M/A-COM Jaguar 700P, 700Pi, 710P / Harris P5100, P5200, P7100, P7200, SPD2000, XG-100P.	Not compatible with TWC2M / TWC12M.	EC2M / EC12M	NiCd / NiMH
TWP-HA3B-D (Harris)	ENDURA DUAL POD FOR HARRIS XL-200P Also Charges: XL-150P, XL-185P, XL-185Pi, XL-200Pi. Note: Compatible with all L3Harris batteries including: XL-PA4K / 14035-5050-01 and XL-PA4M / 14035-5050-04.	Not compatible with TWC2M / TWC12M.	EC2M / EC12M	Li-Ion / LiPo
TWP-HY4-D (Harris / Hytera)	ENDURA DUAL POD FOR HYTERA PD502 / PD602 / PD702 Also Charges: Hytera PD402, PD402i, PD412, PD502i, PD506, PD562, PD562i, PD602G, PD602i, PD606, PD606G, PD662, PD662G, PD662i, PD682, PD682G, PD682i, PD702G, PD702i, PD705, PD706, PD708, PD752, PD752G, PD752i, PD782, PD782G, PD782i, PD785, PD786, PD788, PD792Ex, PD982, PD792i, PT580H / Harris HDP100, HDP150. Note: Charges Hytera BL2411-Ex (IS).	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo



Part Number (Radio Reference)	Description	Compatible TWC Models	Compatible EC Models	Battery Chemistry
TWP-IC3-D (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3161 / IC-F4161 Also Charges: IC-F14, IC-F15, IC-F24, IC-F24S, IC-F33GS, IC-F33GT, IC-F34GS, IC-F34GT, IC-F43GS, IC-F43GT, IC-D43TR, IC-F44GS, IC-F44GT, IC-F3011, IC-F3021, IC-F3023, IC-F3031S, IC-F3033S, IC-F3163, IC-F3230 (DT/DS), IC-F3261 (DT/DS), IC-F3263, IC-F3360 (DT/DS), IC-F4011, IC-F4021, IC-F4023, IC-F4031S, IC-F4033S, IC-F4163, IC-F4230 (DT/DS), IC-F4261 (DT/DS), IF-F4263, IC-F4360 (DT/DS).	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-IC7LI-D (Icom)	ENDURA DUAL POD FOR ICOM IC-F1000 (D/T/S) Also Charges: Icom IC-F1100 (D/DT/DS), IC-F2000 (D/T/S), IC-F2100 (D/DT/DS), BearCom BC1000.	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-IC8LI-D (Icom)	ENDURA CHARGER POD FOR ICOM IC-F3400 (DT/DS/D) Also Charges: IC-F52D, IC-F62D, IC-F4400 (DT/DS/D), IC-F7010 (T/S), IC-F7020 (T/S), IC-F7040 (T/S).	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-IC9LI-D (Icom)	ENDURA CHARGER POD FOR ICOM IP100H / IP501H Also Charges: ID-31A, ID-31E, ID-51A, ID-51E.	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-KW3-D (Kenwood)	ENDURA DUAL POD FOR KENWOOD TK2140 Also Charges: NX220, NX320, NX420, TK2160, TK2170, TK2360, TK3140, TK3160, TK3170, TK3173, TK3360. Note: Compatible with KNB-68LC (IS). Not compatible with KNB-79LC (IS). For NX3000 series use TWP-KW3A-D.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-KW3A-D (Kenwood)	ENDURA DUAL POD FOR KENWOOD NX3000 SERIES RADIOS Also Charges: NX3200, NX3220, NX3300, NX3320, NX3400, NX3420. Note: Compatible with KNB-68LC (IS). Not compatible with KNB-79LC (IS). Pod provides proper fit with NX3000 series radios when used with KNB-11 belt clip and all Kenwood and Power Products batteries. Use TWP-KW-3-D for TK2140 / NX320 radios.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-KW4A-D (Kenwood)	ENDURA DUAL POD FOR KENWOOD NX200 / NX5200 / TK2180 Also Charges: NX200S, NX210, NX300, NX300S, NX410, NX411, NX5300, NX5400, TK3180, TK5210, TK5210G, TK5220, TK5230, TK5310, TK5310G, TK5320, TK5330, TK5410, TK5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430. Note: Compatible with VP6000 radios with KNB-L1 / L2 / L3 batteries. Compatible with KNB-41NC / KNB-73LCM (IS batteries). Not compatible with KNB-50NC / KNB-72LC / KNB-LS5 (IS batteries).	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-KW6-D (Kenwood)	ENDURA DUAL POD FOR KENWOOD TK2200 / TK3200 Also Charges: NX240, NX340, NX1000, NX1200, NX1300, TK2000, TK2200L, TK2200LP, TK2207, TK2212L, TK2300, TK2300VP, TK2302VK, TK2307, TK2312, TK2400VP, TK2402VK, TK3000, TK3200L, TK3200LP, TK3207, TK3212L, TK3300, TK3300UP, TK3302UK, TK3307, TK3312, TK3400UP, TK3402UK. Note: Includes separate insert clips for NiMH and Li-Ion batteries.	TWC2M / TWC12M	EC2M / EC12M	NiCd / NiMH / Li-Ion / LiPo
TWP-SP1-D (Sepura)	ENDURA DUAL POD FOR SEPURA STP8000 Also Charges: Tetra radio models STP8030, STP8035, STP8038, STP8040, STP8080, STP9000, STP9035, STP9038, STP9040, STP9080. Note: Battery only in rear position.	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-TA2-D (Tait)	ENDURA DUAL POD FOR TAIT TP8100 / TP9300 / TP9400 / TP9600 SERIES Also Charges: TP8110, TP8115, TP8120, TP8135, TP8140, TP9300, TP9355, TP9360, TP9400, TP9435, TP9440, TP9455, TP9460, TP9655, TP9660.	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-VX7-D (Vertex)	ENDURA DUAL POD FOR VERTEX EVX530 / VX260 SERIES Also Charges: Vertex Standard EVX531, EVX534, EVX539, VX230, VX231, VX260, VX261, VX264, VX350, VX351, VX354, VX450, VX451, VX454, VX459, VX821, VX824, VX829, VX870, VX871, VX874, VX879, VXP820, VXP821, VXP824, VXP829, VXP871, VXP874, VXP879, VX920, VX921, VX924, VX929, VX970, VX971, VX974, VX979, VXP920, VXP921, VXP924, VXP929, VXP971, VXP974, VXP979. Note: Charges the following batteries – BPV128LI, BPV130LI, BPV132LI, BPV134LI, FNB-V126LI-UNI, FNB-V127LI-UNI, FNB-V128LI-UNI, FNB-V129LI-UNI, FNB-V130LI-UNI, FNB-V131LI-UNI, FNB-V132LI-UNI, FNB-V133LI-UNI, FNB-V134LI-UNI, FNB-V134LIIS (intrinsically safe).	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo
TWP-VX8-D (Vertex)	ENDURA DUAL POD FOR VERTEX EVX-Z61 / BEARCOM BC250D Also Charges: Vertex Standard EVX-Z69.	TWC2M / TWC12M	EC2M / EC12M	Li-Ion / LiPo

Logic In-Vehicle Chargers • LEVCA Single Unit Models (3-Year Warranty)		
Part Number	Description	MSRP
LEVCA-MT16	LOGIC IN-VEHICLE CHARGER FOR MOTOROLA XPR3000, XPR7000 Also Charges: APX900, APX1000, APX2000, APX3000, APX4000, XPR3300, DEP550e, DEP570e, DGP5050e, DGP5550e, DGP8050e, DGP8550e, XPR3300e, XPR3500, XPR3500e, XPR6100, XPR6300, XPR6350, XPR6380, XPR6500, XPR6550, XPR6580, XPR7350, XPR7350e, XPR7380, XPR7380e, XPR7550, XPR7550e, XPR7580, XPR7580e, DP2400, DP2600, DP4400, DP4600, DP4800, Vertex Standard VXD720. For use with Li-Ion / LiPo batteries.	\$299.00
LEVCA-HY4	LOGIC IN-VEHICLE CHARGER FOR HYTERA PD502 / PD602 / PD702	\$299.00



(Special Order)	Also Charges: Hytera PD402, PD402i, PD412, PD502i, PD506, PD562, PD562i, PD602G, PD602i, PD606, PD606G, PD662, PD662G, PD662i, PD682, PD682G, PD682i, PD702G, PD702i, PD705, PD706, PD708, PD752, PD752G, PD752i, PD782, PD782G, PD782i, PD785, PD786, PD788, PD792Ex, PD982, PD792i, PT580H / Harris HDP100, HDP150. For use with Li-Ion / LiPo batteries.	
LEVCA-IC3 (Special Order)	LOGIC IN-VEHICLE CHARGER FOR ICOM IC-F3161 / IC-F4161 Also Charges: IC-F14, IC-F15, IC-F24, IC-F24S, IC-F33GS, IC-F33GT, IC-F34GS, IC-F34GT, IC-F43GS, IC-F43GT, IC-D43TR, IC-F44GS, IC-F44GT, IC-F3011, IC-F3021, IC-F3023, IC-F3031S, IC-F3033S, IC-F3163, IC-F3230 (DT/DS), IC-F3261 (DT/DS), IC-F3263 (DT/DS), IC-F3360 (DT/DS), IC-F4011, IC-F4021, IC-F4023, IC-F4031S, IC-F4033S, IC-F4163, IC-F4230 (DT/DS), IC-F4261 (DT/DS), IF-F4263 (DT/DS), IC-F4360 (DT/DS). For use with Li-Ion / LiPo batteries.	\$299.00
LEVCA-IC7 (Special Order)	LOGIC IN-VEHICLE CHARGER FOR ICOM IC-F1000 (D/T/S) Also Charges: Icom IC-F1100 (D/DT/DS), IC-F2000 (D/T/S), IC-F2100 (D/DT/DS), BearCom BC1000. For use with Li-Ion / LiPo batteries.	\$299.00
LEVCA-KW3	LOGIC IN-VEHICLE CHARGER FOR KENWOOD NX3000 Also Charges: NX220, NX320, NX420, NX3200, NX3220, NX3300, NX3320, NX3400, NX3420, TKD200, TKD300, TK2140, TK2160, TK2170, TK2360, TK3140, TK3160, TK3170, TK3173, TK3360. For use with Li-Ion / LiPo batteries. Note: Compatible with KNB-68LC (IS battery). Not compatible with KNB-79LC (IS battery).	\$299.00
LEVCA-TA2	LOGIC IN-VEHICLE CHARGER FOR TAIT TP8100 / TP9300 / TP9400 / TP9600 Also Charges: TP8110, TP8115, TP8120, TP8135, TP8140, TP9355, TP9360, TP9435, TP9440, TP9445, TP9460, TP9655, TP9660. For use with Li-Ion / LiPo batteries.	\$299.00

Accessories For Logic In-Vehicle Chargers (2-Year Warranty)

Part Number	Description	MSRP
LEVCA-HW	LOGIC SINGLE UNIT CHARGER DC POWER CABLE For use with all LEVCA models. Length: 9.8'. Included with all LEVCA single unit chargers.	\$27.80
LEVCA-DC-XLR	LOGIC 4-UNIT CHARGER DC POWER CABLE For use with LEVCA-MB4. Supplies DC power from a 12V - 24V source. Length: 3.0 meters (16 AWG). Connector: XLR type (NC3FRX).	\$99.80
LEVCA-M	MOUNTING BRACKET FOR ENDURA EVC / LOGIC LEVCA CHARGERS Attaches charger to dash or other angled surface. Multi-directional with 4-hole AMPS mounting pattern. Includes fasteners.	\$21.80
LEVCA-MHD	HEAVY DUTY MOUNTING BRACKET FOR ENDURA EVC / LOGIC LEVCA Attaches charger to floor or other angled surface. Multi-directional with 4-hole AMPS mounting pattern. Includes fasteners.	\$31.80
TWC6M-VPA	VEHICLE POWER ADAPTER For use with all LEVCA models. Supplies power from a vehicle's 12V or 24V outlet. Allows LEVCA to be used "plug-and-play."	\$33.00



ENDURA AUDIO ACCESSORIES

MASTER DEALER PRICING

May 1, 2021

By Radio Brands / Models

(CLICK BRAND FOR LINK TO ASSORTMENT)

BK TECHNOLOGIES

HYTERA / HYT

ICOM

KENWOOD

L3HARRIS

MOTOROLA

TAIT

VERTEX STANDARD

By Product Type

(CLICK LISTING FOR LINK TO ASSORTMENT)

LISTEN ONLY EARPIECES

ESK REPLACEMENT PARTS

ESM REPLACEMENT PARTS

NEXUS CONNECTOR HEADSETS

Endura Audio Brochure

(SCROLL TO END OF DOCUMENT)

PRODUCT IMAGES & INFORMATION

Power Products Unlimited, LLC
2170 Brandon Trail • Alpharetta, GA 30004

www.powerproducts.com

BK TECHNOLOGIES**BK TECHNOLOGIES BK2 CONNECTOR FOR**

KNG-P150, KNG-P400, KNG-P500, KNG-P800, KNG2-P150, KNG2-P400, KNG2-P500, KNG2-P800

Part Number	Product Name	Master	Dealer	MSRP
ESM-27-BK2	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$56.20	\$70.30	\$112.40
ESM-50-BK2-00	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$119.50	\$149.40	\$239.00
ESM-50-BK2-04	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, AUTO-NEXUS PORT, VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT (SEE PAGE 8 FOR COMPATIBLE HEADSETS WITH NEXUS CONNECTOR)	\$137.50	\$171.90	\$275.00

HYTERA / HYT**HYTERA HY1 CONNECTOR FOR**

TC-300, TC-500, TC-508, TC-518, TC-900, TC-1600, TC-2100, TC-2108C

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-HY1	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$15.00	\$18.80	\$30.00
ESK-1W-HY1	ENDURA 1 WIRE SURVEILLANCE KIT, COMPACT PTT, CLEAR AUDIO TUBE, INCLUDES SPARE EARBUD	\$12.70	\$15.90	\$25.40
ESK-1WATD-HY1	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$22.60	\$28.30	\$45.20
ESM-20-HY1	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$28.20	\$35.30	\$56.40

**HYTERA HY1L CONNECTOR FOR**

BD502, BD502i, BD552, BD552i, PD412, PD412i, PD502, PD502i, PD562, PD562i, TC-508, TC-518, TC-580, TC-600, TC-610, TC-620, TC-700

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-HY1L	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$16.50	\$20.60	\$33.00
ESK-1W-HY1L	ENDURA 1 WIRE SURVEILLANCE KIT, COMPACT PTT, CLEAR AUDIO TUBE, INCLUDES SPARE EARBUD	\$13.90	\$17.40	\$27.80
ESK-1WATD-HY1L	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$23.90	\$29.90	\$47.80
ESM-20-HY1L	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$29.90	\$37.40	\$59.80

**HYTERA HY4 CONNECTOR FOR**

PD702, PD702i, PD705, PD705G, PD752, PD752i, PD780, PD780G, PD782, PD782i, PD785, PD785G, PD982, PD982i, PT580H

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-HY4	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$25.50	\$31.90	\$51.00
ESK-1WATD-HY4	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$34.90	\$43.60	\$69.80
ESM-28-HY4	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40

**HYTERA HY5 CONNECTOR FOR**

PD602, PD602G, PD602i, PD662, PD662G, PD662i, PD682, PD682G, PD682i, X1e, X1p, Z1p / Harris HDP250

Part Number	Product Name	Master	Dealer	MSRP
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ESK-1WATD-HY5	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$32.00	\$40.00	\$64.00
ESM-20-HY5	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$37.60	\$47.00	\$75.20

ICOM**ICOM IC7 CONNECTOR FOR**

BearCom BC1000, IC-F1000 (D/T/S), IC-F1100 (D/DT/DS), IC-F2000 (D/T/S), IC-F2100 (D/DT/DS), IC-F3001, IC-F3002, IC-F3003, IC-F3011, IC-F3013, IC-F3021 (T/S), IC-F3022 (T/S), IC-F3023 (T/S), IC-3026 (T/S), IC-F3031S, IC-F3032S, IC-F3033S, IC-F3036S, IC-F3101D, IC-F3102D, IC-F3103D, IC-F3210D, IC-F3230 (DT/DS), IC-F4001, IC-F4002, IC-F4003, IC-F4011, IC-F4013, IC-F4021 (T/S), IC-F4022 (T/S), IC-F4023 (T/S), IC-F4026 (T/S), IC-F4032S, IC-F4033S, IC-F4036S, IC-F4101D, IC-F4102D, IC-F4103D, IC-F4031S, IC-F4210D, IC-F4230 (DT/DS)

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-IC7	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$16.50	\$20.60	\$33.00
ESK-1WATD-IC7	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$22.60	\$28.30	\$45.20
ESM-20-IC7	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$29.90	\$37.40	\$59.80
ESM-28-IC7	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$37.60	\$47.00	\$75.20

**ICOM IC8 CONNECTOR FOR**

IC-F50, IC-F50V, IC-F60, IC-F60V, IC-F70 (DT/DS/T/S), IC-F80 (DT/DS/T/S), IC-F3161 (DT/DS/T/S), IC-F3162 (DT/DS/T/S), IC-F3163 (T/S), IC-F4161 (DT/DS/T/S), IC-F4162 (DT/DS/T/S), IC-F4163 (T/S)

Part Number	Product Name	Master	Dealer	MSRP
ESK-1WATD-IC8	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$32.00	\$40.00	\$64.00
ESM-28-IC8	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40
ESM-27-IC8	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$50.20	\$62.80	\$100.40

**ICOM IC9 CONNECTOR FOR**

IC-F52D, IC-F62D, IC-F3261 (DT/DS), IC-F3262 (DT/DS), IC-F3263 (DT/DS), IC-F3360 (DT/DS), IC-F3400 (DT/DS/D), IC-F4261 (DT/DS), IC-F4262 (DT/DS), IC-F4263 (DT/DS), IC-F4360 (DT/DS), IC-F4400 (DT/DS/D), IC-F7010 (T/S), IC-F7020 (T/S), IC-F7040 (T/S), IC-F9011 (T/S/B), IC-F9021 (T/S/B)

Part Number	Product Name	Master	Dealer	MSRP
ESK-1WATD-IC9	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$36.90	\$46.10	\$73.80
ESM-28-IC9	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40
ESM-27-IC9	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$56.20	\$70.30	\$112.40

KENWOOD**KENWOOD KW1 CONNECTOR FOR**

NX220, NX240, NX320, NX340, NX420, NX1200, NX1300, NX3220, NX3320, NX3420, TK260, TK260G, TK270, TK270G, TK272G, TK360, TK360G, TK370, TK370G, TK372G, TK373G, TK430, TK431, TK2100, TK2160, TK2170, TK2200, TK2212, TK2300, TK2302VK, TK2312, TK2317, TK2360, TK2400, TK2400P, TK2402V, TK3100, TK3101, TK3160, TK3170, TK3173, TK3200, TK3212, TK3230XLS, TK3202UK, TK3300, TK3312, TK3317, TK3360, TK3400U, TK3402U

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-KW1	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$15.00	\$18.80	\$30.00

EAK-1WEB-KW1	ENDURA 1 WIRE EARBUD, COMPACT PTT, INCLUDES SPARE EARBUD COVER	\$11.20	\$14.00	\$22.40
EAK-1WEH-KW1	ENDURA 1 WIRE EARHOOK, ADJUSTABLE EARPIECE, COMPACT PTT, INCLUDES SPARE EARPIECE COVER, CABLE EXITS FROM EARPIECE	\$9.90	\$12.40	\$19.80
EAK-1WEH2-KW1	ENDURA 1 WIRE EARHOOK, ADJUSTABLE EARPIECE, COMPACT PTT, INCLUDES SPARE EARPIECE COVER, CABLE EXITS FROM EARHOOK	\$13.50	\$16.90	\$27.00
EAK-1WGR-KW1	ENDURA 1 WIRE G-RING, COMPACT PTT, FLEX AND SWIVEL EARPIECE FOR ADDED COMFORT	\$14.00	\$17.50	\$28.00
EH-1WM2-KW1	ENDURA 1 WIRE OVER-THE-HEAD LIGHT WEIGHT HEADSET, BOOM MIC, INLINE PTT	\$24.90	\$31.10	\$49.80
ESK-1W-KW1	ENDURA 1 WIRE SURVEILLANCE KIT, COMPACT PTT, CLEAR AUDIO TUBE, INCLUDES SPARE EARBUD	\$12.70	\$15.90	\$25.40
ESK-1WATD-KW1	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$22.60	\$28.30	\$45.20
ESK-2WPM-KW1	ENDURA 2 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$14.90	\$18.60	\$58.20
ESM-20-KW1	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$28.20	\$35.30	\$56.40
ESM-28-KW1	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$32.90	\$41.10	\$65.80

**KENWOOD KW2 CONNECTOR FOR**

NX200, NX200G, NX210, NX210G, NX300, NX300G, NX3200, NX3300, NX3400, NX5200, NX5300, NX5400, TK190, TK280, TK290, TK380, TK385, TK390, TK480, TK481, TK2140, TK2148, TK2180, TK3140, TK3148, TK3180, TK5210, TK5210G, TK5220, TK5230, TK5310, TK5310G, TK5320, TK5330, TK5400, TK5410, TK5430, VP5230, VP5330, VP5430, VP6230, VP6330, VP6430

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WGR-KW2	ENDURA 1 WIRE G-RING, COMPACT PTT, FLEX AND SWIVEL EARPIECE FOR ADDED COMFORT	\$18.90	\$23.60	\$48.80
ESK-1WATD-KW2	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$32.00	\$40.00	\$64.00
ESK-2WPM-KW2	ENDURA 2 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$37.80	\$47.30	\$75.60
ESM-20-KW2	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$37.60	\$47.00	\$75.20
ESM-28-KW2	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40
ESM-50-KW2-00	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$119.50	\$149.40	\$239.00
ESM-50-KW2-04	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, AUTO-NEXUS PORT, VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT (SEE PAGE 8 FOR COMPATIBLE HEADSETS WITH NEXUS CONNECTOR)	\$137.50	\$171.90	\$275.00

L3HARRIS (Also see Tait listing.)**L3HARRIS HA1 CONNECTOR FOR**

Jaguar 700P, 700Pi, 710P, P5100, P5130, P5150, P5200, P7100, P7130, P7150, P7170, P7200, P7230, P7250, P7270, SPD2000

Part Number	Product Name	Master	Dealer	MSRP
ESM-27-HA1	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$56.20	\$70.30	\$112.40

**L3HARRIS HA3 CONNECTOR FOR**

XG-15P, XG-25P, XG-75P, P5300, P5400, P5500, P7300

Part Number	Product Name	Master	Dealer	MSRP
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ESM-27-HA3	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$56.20	\$70.30	\$112.40
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**L3HARRIS HA4 CONNECTOR FOR**

XG-100P / Unity, XL-185P, XL-185Pi, XL-200P, XL-200Pi

Part Number	Product Name	Master	Dealer	MSRP
EH-1WH4-HA4	ENDURA HEADSET WITH BOOM MIC, NOISE CANCELLING MICROPHONE, ADJUSTABLE HEADBAND, IN-LINE PTT	\$49.90	\$62.40	\$99.80
ESK-2WPM-HA4	ENDURA 2 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$39.90	\$49.90	\$79.80
ESM-27-HA4	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$56.20	\$70.30	\$112.40
ESM-50-HA4-00	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$119.50	\$149.40	\$239.00
ESM-50-HA4-04	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, AUTO-NEXUS PORT, HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT (SEE PAGE 8 FOR COMPATIBLE HEADSETS WITH NEXUS CONNECTOR)	\$137.50	\$171.90	\$275.00

MOTOROLA (Also see Vertex Standard listing.)**MOTOROLA MT1 CONNECTOR FOR**

BPR40, CP100, CP110, CP125, CP150, CP185, CP200, CP200d, CP250, CP476, CP477, CT150, CT250, CT450, CT450LS, EP450, GP300, GP2000, GTX, LTS2000, P10, P110, P1225, P200, PR400, PRO3150, SP10, SP50, VL130, XV1100, XV2100, XU1100, XU2100, XU2600

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-MT1	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$15.00	\$18.80	\$30.00
EAK-1WEH-MT1	ENDURA 1 WIRE EARHOOK, ADJUSTABLE EARPIECE, COMPACT PTT, INCLUDES SPARE EARPIECE COVER, CABLE EXITS FROM EARPIECE	\$15.00	\$18.80	\$30.00
EAK-1WGR-MT1	ENDURA 1 WIRE G-RING, COMPACT PTT, FLEX AND SWIVEL EARPIECE FOR ADDED COMFORT	\$14.00	\$17.50	\$28.00
ESK-1W-MT1	ENDURA 1 WIRE SURVEILLANCE KIT, COMPACT PTT, CLEAR AUDIO TUBE, INCLUDES SPARE EARBUD	\$12.70	\$15.90	\$25.40
ESK-1WATD-MT1	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$22.60	\$28.30	\$45.20
ESK-2WPM-MT1	ENDURA 2 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$29.10	\$36.40	\$58.20
ESM-20-MT1	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$28.20	\$35.30	\$56.40
ESM-28-MT1	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$32.90	\$41.10	\$65.80

**MOTOROLA MT3 CONNECTOR FOR**

XTS1500, XTS2500, XTS3000, XTS3500, XTS5000 / EF Johnson Viking VP400, VP600, VP900

Part Number	Product Name	Master	Dealer	MSRP
ESM-28-MT3	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40

**MOTOROLA MT8 CONNECTOR FOR**

XPR3000, XPR3000e, XPR3300, XPR3300e, XPR3500, XPR3500e

Part Number	Product Name	Master	Dealer	MSRP
ESM-20-MT8	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$37.60	\$47.00	\$75.20

**MOTOROLA MT9 CONNECTOR FOR**

APX1000, APX3000, APX4000, APX6000, APX7000, APX8000, XPR6100, XPR6300, XPR6350, XPR6380, XPR6500, XPR6550, XPR6580, XPR7350, XPR7550, XPR7580, SRX2200

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WGR-MT9	ENDURA 1 WIRE G-RING, COMPACT PTT, FLEX AND SWIVEL EARPIECE FOR ADDED COMFORT	\$24.40	\$30.50	\$48.80
ESK-1WATD-MT9	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$32.00	\$40.00	\$64.00
ESM-20-MT9	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$37.60	\$47.00	\$75.20
ESM-28-MT9	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40
ESM-50-MT9-00	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, VOLUME CONTROL, EMERGENCY BUTTON, PROGRAMMABLE BUTTON, 3.5 mm PORT	\$119.50	\$149.40	\$239.00
ESM-50-MT9-04	ENDURA RUGGED SPEAKER MIC, IP67, DUAL PTT, AUTO-NEXUS / 3.5 mm PORTS, VOLUME CONTROL, EMERGENCY / PROGRAMMABLE BUTTONS (SEE PAGE 8 FOR COMPATIBLE HEADSETS WITH NEXUS CONNECTOR)	\$137.50	\$171.90	\$275.00

**MOTOROLA MT10 CONNECTOR FOR**

SL1M, SL2K, SL300, SL500, SL500e, SL1600, SL3500e, SL4000e, SL4010e, SL7000, SL7000e, SL7550, SL7550e, SL7580, SL7580e, SL7590, SL7590e, SL8550, SL8550e, TLK100

Part Number	Product Name	Master	Dealer	MSRP
EAK-1WDR-MT10	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$16.50	\$20.60	\$33.00
EAK-1WEH-MT10	ENDURA 1 WIRE EARHOOK, ADJUSTABLE EARPIECE, COMPACT PTT, INCLUDES SPARE EARPIECE COVER, CABLE EXITS FROM EARPIECE	\$15.00	\$18.80	\$30.00
ESK-1WATD-MT10	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$22.60	\$28.30	\$45.20

Tait**TAIT TA1 CONNECTOR FOR**

TP3000, TP3300, TP3550, TP8100, TP8110, TP8115, TP8120, TP8135, TP8140, TP9355, TP9360, TP9400, TP9435, TP9440, TP9445, TP9460, TP9600, TP9655, TP9660

Part Number	Product Name	Master	Dealer	MSRP
EAK-2WDR-TA1	ENDURA 2 WIRE ADJUSTABLE D-RING, FULL-SIZE PTT, ROTATING EARPIECE	\$32.00	\$40.40	\$64.00
ESK-2WPM-TA1	ENDURA 2 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$37.80	\$47.30	\$75.60
ESM-20-TA1	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$37.60	\$47.00	\$75.20
ESM-28-TA1	ENDURA SPEAKER MIC, IP67, EXTRA LOUD AUDIO (103 dB), WIND SUPPRESSION DESIGN, HEAVY DUTY CABLE, 3.5 mm PORT	\$41.20	\$51.50	\$82.40
ESM-27-TA1	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB), HIGH / LOW VOLUME CONTROL, EMERGENCY BUTTON, 3.5 mm PORT	\$50.20	\$62.80	\$100.40
ESM-27-TA1TDMA	ENDURA SPEAKER MIC, IP68, EXTRA LOUD AUDIO (103 dB) HIGH / LOW VOLUME CONTROL, 3.5 mm PORT, EMERGENCY BUTTON, FOR TDMA P25 PHASE 2 OR DMR TIER 2 TRUNKED NETWORKS	\$50.20	\$62.80	\$100.40

VERTEX STANDARD**VERTEX VX4 CONNECTOR FOR**

EVX261, EVX531, EVX534, EVX539, VX130, VX160, VX180, VX210, VX210A, VX230, VX231, VX261, VX264, VX350, VX351, VX354, VX410, VX420, VX450, VX454, VX451, VX459

Part Number	Product Name	Master	Dealer	MSRP
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EAK-1WDR-VX4	ENDURA 1 WIRE ADJUSTABLE D-RING, COMPACT PTT, ROTATING EARPIECE	\$15.00	\$18.80	\$30.00
ESK-1WATD-VX4	ENDURA 1 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$22.60	\$28.30	\$45.20
ESM-20-VX4	ENDURA SPEAKER MIC, IP54, COMPACT SIZE, 3.5 mm PORT FOR OPTIONAL EARPIECE	\$29.90	\$37.40	\$59.80

**VERTEX VX6 CONNECTOR FOR**

VERTEX STANDARD / MOTOROLA EVX-S24

Part Number	Product Name	Master	Dealer	MSRP
EAK-2WDR-VX6	ENDURA 2 WIRE ADJUSTABLE D-RING, FULL-SIZE PTT, ROTATING EARPIECE	\$19.50	\$24.40	\$39.00
ESK-2WPM-VX6	ENDURA 2 WIRE SURVEILLANCE KIT, FULL-SIZE PTT, QUICK DISCONNECT AUDIO TUBE, INCLUDES SPARE EARBUD	\$29.10	\$36.40	\$58.20

LISTEN ONLY EARPIECES (Surveillance Type)

Part Number	Product Name	Master	Dealer	MSRP
ESK-LIS25-90	ENDURA LISTEN ONLY SURVEILLANCE TYPE EARPIECE, 2.5 mm / 90 DEGREE CONNECTOR	\$11.90	\$14.90	\$23.80
ESK-LIS25-S	ENDURA LISTEN ONLY SURVEILLANCE TYPE EARPIECE, 2.5 mm / STRAIGHT CONNECTOR	\$11.90	\$14.90	\$23.80
ESK-LIS35-90	ENDURA LISTEN ONLY SURVEILLANCE TYPE EARPIECE, 3.5 mm / 90 DEGREE CONNECTOR	\$11.90	\$14.90	\$23.80
ESK-LIS35-S	ENDURA LISTEN ONLY SURVEILLANCE TYPE EARPIECE, 3.5 mm / STRAIGHT CONNECTOR	\$11.90	\$14.90	\$23.80

ENDURA SURVEILLANCE KITS • REPLACEMENT PARTS

Part Number	Product Name	Master	Dealer	MSRP
ESK-AT1	ENDURA SURVEILLANCE KIT - CLEAR AUDIO TUBE WITH EARBUD FOR ESK-1WATD AND ESK-2WPM MODELS (NOT COMPATIBLE WITH ESK-1W MODELS)	\$4.20	\$5.30	\$8.40
ESK-AT2	ENDURA SURVEILLANCE KIT - CLEAR AUDIO TUBE WITH EARBUD FOR ESK-1W MODELS (NOT COMPATIBLE WITH ESK-1WATD AND ESK-2WPM MODELS)	\$4.70	\$5.90	\$9.40
ESK-EB1	ENDURA SURVEILLANCE KIT - REPLACEMENT EAR BUD, 12.3 mm DIAMETER CROWN, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$0.90	\$1.10	\$1.80
EAK-EB2	ENDURA SURVEILLANCE KIT - REPLACEMENT EAR BUD, 10.1 mm DIAMETER CROWN, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$0.90	\$1.10	\$1.80
ESK-EF1	ENDURA SURVEILLANCE KIT - EARFOAM TYPE EARBUD, 11.8 mm DIAMETER, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.90	\$2.40	\$3.80
ESK-EMLG-L	ENDURA SURVEILLANCE KIT - MOLDED LEFT EARPIECE, LARGE, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.50	\$1.90	\$3.00

ESK-EMLG-R	ENDURA SURVEILLANCE KIT - MOLDED RIGHT EARPIECE, LARGE, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.50	\$1.90	\$3.00
				
ESK-EMMD-L	ENDURA SURVEILLANCE KIT - MOLDED LEFT EARPIECE, MEDIUM, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.50	\$1.90	\$3.00
				
ESK-EMMD-R	ENDURA SURVEILLANCE KIT - MOLDED RIGHT EARPIECE, MEDIUM, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.50	\$1.90	\$3.00
				
ESK-EMSM-L	ENDURA SURVEILLANCE KIT - MOLDED LEFT EARPIECE, SMALL, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.50	\$1.90	\$3.00
				
ESK-EMSM-R	ENDURA SURVEILLANCE KIT - MOLDED RIGHT EARPIECE, SMALL, FITS ALL ESK MODELS, QUANTITY 1 PER PACKAGE	\$1.50	\$1.90	\$3.00
				

ENDURA SPEAKER MICS • REPLACEMENT PARTS

Part Number	Product Name	Master	Dealer	MSRP
ESM-20-CL	REPLACEMENT CLIP FOR ESM-20 / 21 SPEAKER MICS, INCLUDES 4 SCREWS FOR FASTENING BASE PLATE, SPECIAL ORDER	\$9.90	\$12.40	\$19.80
ESM-27-CL	REPLACEMENT CLIP FOR ESM-27 SPEAKER MICS, INCLUDES BACK HOUSING AND FASTENERS, SPECIAL ORDER	\$13.90	\$17.40	\$27.80
ESM-28-CL	REPLACEMENT CLIP FOR ESM-28 SPEAKER MICS, INCLUDES 4 SCREWS FOR FASTENING BASE PLATE, SPECIAL ORDER	\$10.90	\$13.60	\$21.80

ENDURA ACCESSORIES WITH NEXUS CONNECTOR • FOR ESM-50-xx-04 MODELS

Part Number	Product Name	Master	Dealer	MSRP
EIE1-03	ENDURA IN-EAR MICROPHONE HEADSET WITH NEXUS NATO TYPE CONNECTOR, INCLUDES EARHANGER AND TWO EARTIP SIZES	\$149.00	\$186.30	\$298.00



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NEWMAR[®]

A MISSION CRITICAL ELECTRONICS BRAND

NFPA Compliant Battery Back-Up Power

ETL Listed to UL Standard 2524 & 924 Public Safety/BDA In-Building Coverage

An integral part of an in-building solution for emergency response radio coverage is the backup power system. NFPA codes relating to the autonomous operation and monitoring of the BDA power is quite stringent. These back up power enclosures were engineered to meet every aspect of NFPA 1221 and provide integrators configuration flexibility and rapid delivery directly to site, batteries included.

Features

- ETL listed to UL 2524 & 924
- NFPA compliant
 - All required monitoring alarms
- Batteries included
 - Choose capacity to match system requirements
- NEMA-4 enclosure
- Lightweight and prewired with waterproof feed-thru's for easy one-man install and on-site connections
- Assembled in America

Specifications

Input: 115/230 VAC (factory wired for 120V AC)

Outputs:

DC: 12, 24 and 48V, with 120, 240 and 480 Watt DC UPS

AC: 110V at 96 watts - see reverse for detailed specifications

Protections: Battery breaker, AC input breaker, NEMA enclosure, liquid tight cord grips

NFPA 1221 Compliant Alarms (Form C, Dry Contact)

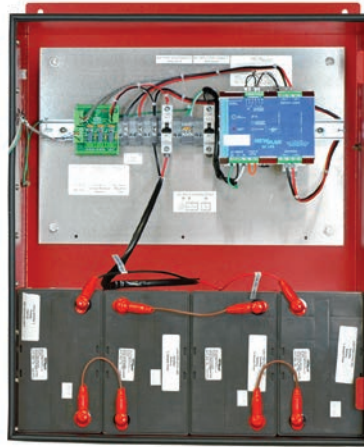
- AC fail
- Battery discharged to 30% of capacity
- Charger fail

Batteries Included: maintenance free, valve regulated, sealed lead acid, 18, 55, 82 and 100 AH capacity

Enclosure Size including Mounting Flanges (H x W x D):

A: 30" x 23" x 10.5"

B: 23.15" x 24" x 24"



Enclosure A
12, 24, & 48V DC, 18 - 100AH



**ETL Listed to
UL Standards
2524 & 924**



Enclosure B
48V, 100AH



UL Standard 2524
UL Standard 924



NFPA
MEMBER
2020-2021

Enclosure A: NEMA-4, UL listed (E465553), welded aluminum with IP 65 battery vent and locking door, IP-68 cable entries. Red powder coat wall mount.

Enclosure B: NEMA-4, welded aluminum with IP 65 vent, pad lockable door handle, IP-68 cable entries. Red powder coat wall mount.

Model	Output Voltage	Max. BDA Load Amps	Batt. A/H Capacity*	System w/ Batt. Wt. (Lbs.)	Shipping Wt. (Lbs.)	Enclosure Size
PE-12V-120-18AH-UL2524	12V DC	1.2A	18	49	89	A
PE-12V-120-55AH-UL2524	12V DC	3.8A	55	75	115	A
PE-12V-120-100AH-UL2524	12V DC	5A	100	111	151	A
PE-24V-240-18AH-UL2524	24V DC	1.2A	18	63	103	A
PE-24V-240-55AH-UL2524	24V DC	3.8A	55	114	154	A
PE-24V-240-100AH-UL2524	24V DC	5A	100	186	226	A
PE-48V-480-18AH-UL2524	48V DC	1.2A	18	90	130	A
PE-48V-480-55AH-UL2524	48V DC	4A	55	190	230	A
PE-48V-480-82AH-UL2524**	48V DC	6.6A	82	283	323	B
PE-48V-480-100AH-UL2524	48V DC	8.5A	100	371	411	B
PE-110V-165-100AH/24V-UL2524	110V AC	1.4A	100	191	231	A

*See reverse for battery specifications; ** Pending; UL: Models ETL Listed to UL Standards 2524 & 924



Powering the Network 0121

NFPA Compliant Battery Back-Up Power

Battery Specifications

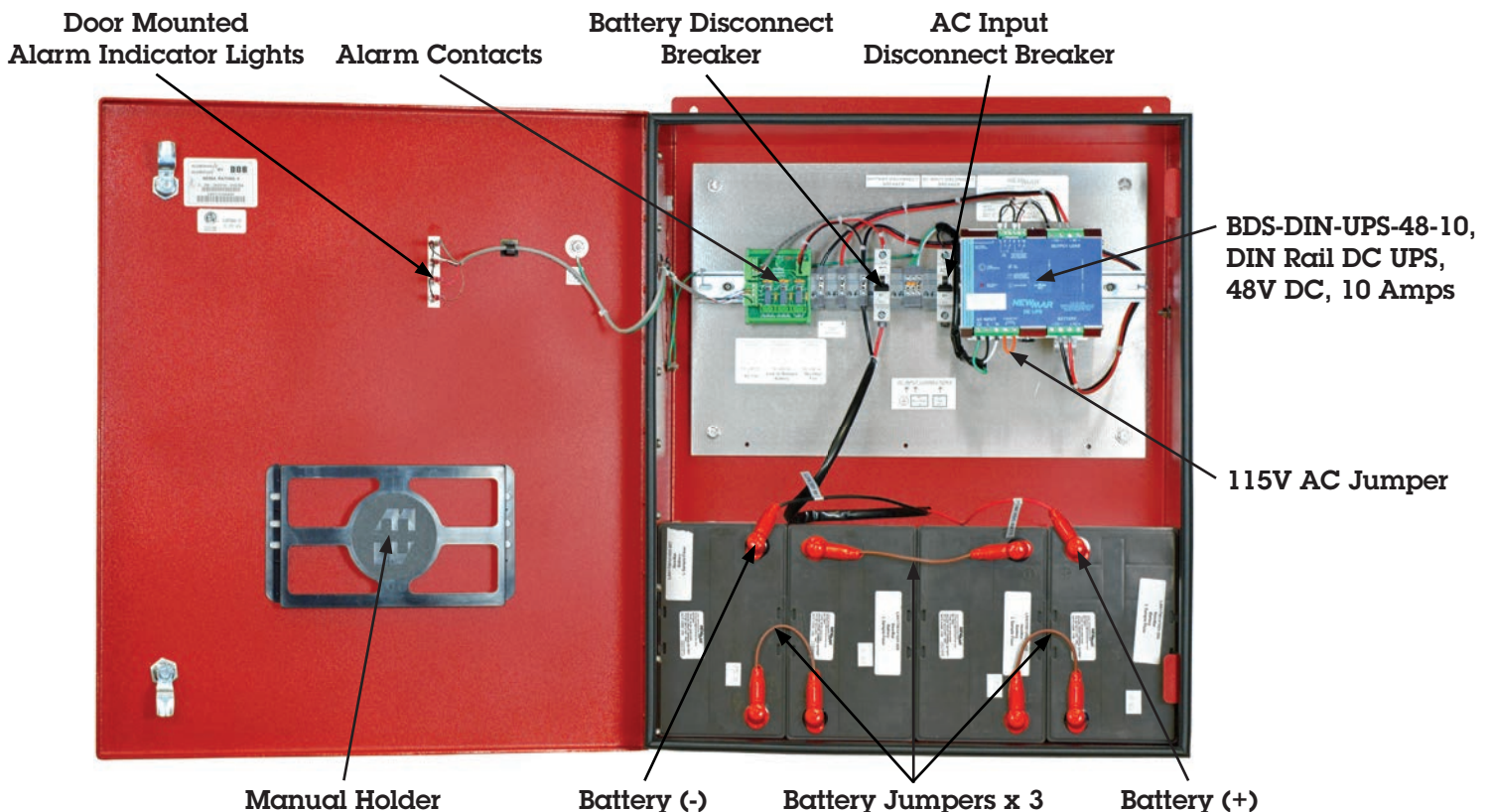
Model	Amp/Hour	Battery	Quantity	Max	Max	Electrolyte Content	
				Continuous Load 12 Hour Rating	Continuous Load 24 Hour Rating	Pounds	Gallons
12V DC							
PE-12V-120-18AH-UL2524		ES17-12S	1	1.2A/15.2W	.75A/9W	1.9	0.3
PE-12V-120-55AH-UL2524		XP12-210FR	1	3.8A/48.2W	2.33A/28W	7.6	0.8
PE-12V-120-100AH-UL2524		PYL12V100FS	1	5A/63.5W	4.6A/55W	22.8	1.6
24V DC							
PE-24V-240-18AH-UL2524		ES17-12S	2	1.2A/29.4W	.75A/18W	3.9	0.6
PE-24V-240-55AH-UL2524		XP12-210FR	2	3.8A/93.1W	2.33A/56W	15.2	1.6
PE-24V-240-100AH-UL2524		PYL12V100FS	2	5A/122.5W	4.6A/110W	45.7	3.2
48V DC							
PE-48V-480-18AH-UL2524		ES17-12S	4	1.2A/60W	.75A/36W	7.7	1.3
PE-48V-480-55AH-UL2524		XP12-210FR	4	4A/200W	2.33A/112W	30.5	3.2
PE-48V-480-82AH-UL2524		XP12-300FR	4	6.6A/316W	3.33A/160W		
PE-48V-480-100AH-UL2524		PYL12V100FS	4	8.5A/392W	4.6A/221W	91.3	6.3
110V AC							
PE-110V-165-100AH/24V-UL2524		PYL12V100FS	4	1.4A/165W	.82A/96W	91.3	6.3

Based on 100% duty cycle. Back-up time increase if intermittent duty cycle loads applied.

ETL Listed to UL Standards 2524 & 924

* Model PE-48V-480-82AH-UL2524 is pending and specifications subject to change

Typical Wiring Diagram



NEWMAR

Powering the Network

NFPA Compliant Battery Back-Up Power

Public Safety/BDA In-Building Coverage

An integral part of an in-building solution for emergency response radio coverage is the backup power system. NFPA codes relating to the autonomous operation and monitoring of the BDA power is quite stringent. These back up power enclosures were engineered to meet every aspect of NFPA 1221 and provide integrators configuration flexibility and rapid delivery directly to site, batteries included.

Features

- NFPA compliant
 - All required monitoring alarms
- Batteries included
 - Choose capacity to match system requirements
- NEMA-4 UL listed enclosure
- Prewired for easy on-site connections
- Customization to meet local AHJ's requirements



Specifications

Input: 90 - 300V AC, 50/60 Hz.

Outputs:

DC: 48V, with 600, 700 and 1200 Watt DC UPS

AC: 120V at 600 watts - see reverse for detailed specifications

Protections: Battery circuit breaker, DC output circuit breaker, NEMA enclosure, IP65 vents

NFPA 1221 Compliant Alarms (Form C, Dry Contact)

- AC fail
- Battery discharged to 30% of capacity
- Rectifier/Charger fail

Batteries Included: maintenance free, sealed valve regulated, lead acid; 160, 185, 280, 320, 370, 400 and 600 AH capacity

Included:

- Battery string wiring: 8 AWG, two conductor with 5/16" ring battery terminals
- Battery string circuit breaker: 30A



Enclosure Size (H x W x D):

A: 50.23" x 25.5" x 34"

B: 78.23" x 25.5" x 34"

C: 30" x 25.5" x 34"

Enclosure A: 50" tall, NEMA-4, UL listed, welded aluminum with IP 65 battery vent and pad lockable door handles. Red powder coat floor mount.

Enclosure B: NEMA-4, UL listed, welded aluminum with IP 65 vent, pad lockable door handles. Red powder coat floor mount.

Model	Output Voltage	Maximum Load	Batt. A/H Capacity	Maximum Cont. Load:		Enclosure Size
				12 Hrs. Watts	24 Hrs. Watts	
PE-48V-350-200AH	48V DC	350W @ 48V DC	200	650	344	A*
PE-48V-480-160AH	48V DC	480W @ 48V DC	160	650	344	A*
PE-48V-480-200AH	48V DC	480W @ 48V DC	200	600	412	C*
PE-48V-600-185AH	48V DC	600W @ 48V DC	185	600	300	A*
PE-48V-600-320AH	48V DC	600W @ 48V DC	320	600	600	A*
PE-48V-600-370AH	48V DC	600W @ 48V DC	370	600	600	A*
PE-48V-700-280AH	48V DC	700W @ 48V DC	280	700	634	A*
PE-48V-700-370AH	48V DC	700W @ 48V DC	370	700	700	A*
PE-48V-700W-400AH	48V DC	700W @ 48V DC	400	700	634	A*
PE-48V-1200W-600AH	48V DC	1200W @ 48V DC	600	1200	871	B
PE-120V-600-185AH	120V AC	600W @ 120V AC	185	600	300	A*
PE-120V-600-370AH	120V AC	600W @ 120V AC	370	600	600	A*

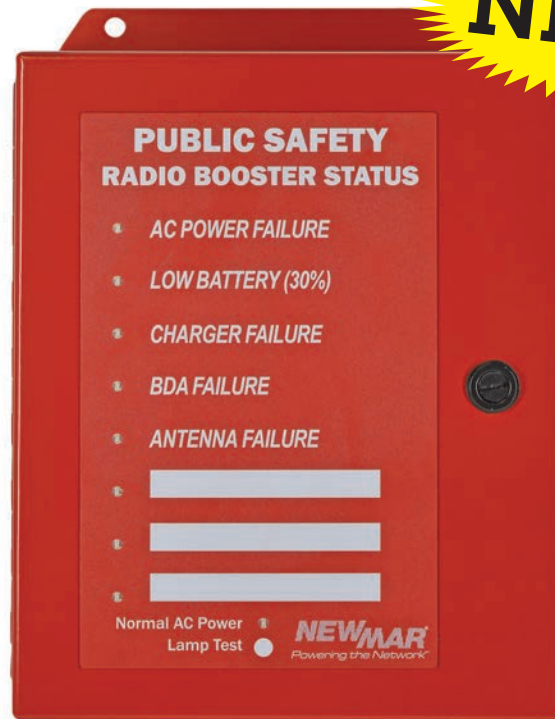
* Can be upgraded to larger enclosure, size B



Powering the Network

121819

Annunciator Panel



Annunciator Panel, model AP-8000A, is designed to meet NFPA 1221 standards for a dedicated BDA and BDA battery back-up annunciation panel. Contained in a compact NEMA 4 enclosure, the audible and visual alarm annunciator is a companion to the PE Series power enclosures and features eight Form-C alarm relays. The first five alarms are wired for NFPA mandated alarms; AC Power Failure, Low Battery, Charger Failure, BDA Failure and Antenna Failure. Three alarm relays are available for site customization; additional alarms could include Donor Antenna Disconnection, Active, RF Emitting Device Malfunction, System Component Malfunction, and more. A normal AC power LED and lamp test button are included.

Features

- NEMA 4 enclosure, powder coated steel
- Front panel "test" alarm button
- Ultra bright light emitting diodes
- Microprocessor controlled
- Wide operating voltage range: 12, 24 and 48 volt systems
- Eight (8) Form-C alarm relays
- Alarm silence button (24 Hrs.) located inside enclosure
- Easily adapted to fit nearly any situation, 12, 24 and 48V DC battery back-ups
- Selectable Alarm Input: Can be activated by contact open (default) or contact closure upon alarm.

Specifications

Input: 7 - 60V DC

Input Current Draw: <100 mA

Max. Power: 4.5 watts

Operating Temperature: -4 to 122° F (-20 to 50° C)

Heat Dissipation: <12 watts (worst case)

Relay Switching Current: 2-Amp DC (resistive)

Enclosure: NEMA-4, UL listed, welded steel with IP-66 rating, quarter turn latch, bonding studs on door and enclosure, continuous stainless steel hinge with welded brackets for enclosure mounting, one each NPT-1/2 and NPT-3/4 liquid tight cord grips included.

Options

Master/Slave Multiple Annunciators: Allows 1 master and up to 15 remotes to be wired in sequence via RS-485 connectivity

Summary Alarm (Auto Dialer): A designated alarm relay can activate when any 1 of the 7 alarm inputs are activated in order to activate an auto-dialer

Loss of Annunciator Panel Power Alarm: Provides a normally closed alarm contact that opens upon loss of power to annunciator panel.

Model	Dimensions (H x W x D)	Weight (Lbs.)
AP-8000A	11.375" x 8" x 4.75"	7.35



Huntington Beach, CA USA

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0120

Commander Power System



Incredible Functionality, Flexibility, and Scalability in a 5 RU, 1.0 to 14.0 Kw DC Power System

- 19", 5U rackmount shelf with integrated power distribution
- 90-250 VAC input, Power Factor Corrected
- 7 power bays accept 1000 or 2000 watt modular rectifiers
- 259 amp, 14,000 watt total max. output capacity, (222 Amp, 2,000 Watt, N+1) @ - 54 VDC
- Output temperature compensated for precise battery charging
- 18 DC circuit breaker distribution capacity, with tripped breaker alarm, 63 amp max. circuit breaker rating
- Master disconnect breakers for four battery banks, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions
- Low voltage disconnect built in
- Easily configures to meet site power requirements

Complete system design and integration by Newmar to your application parameters: Rectifier configuration, installation of distribution circuit breakers, and configuration of alarms and monitors. Assembly in a relay rack with batteries and wiring also available. Let us submit a proposal on your next project.

System Power Configurations @ 48V*

Watts Per Rectifier	# of Rectifiers Installed						
	1	2	3	4	5	6	7
2000	37A (2,000W)	74A (4,000W)	111A (6,000W)	148A (8,000W)	185A (10,000W)	222A (12,000W)	259A (14,000W)

* @ 230 VAC input, 2Kw: derate 41% @ 110 VAC input; 1Kw: derate 33% @ 110 VAC input

Commander Power System

AC Input

Nominal:	230V
Voltage Range:	90-300V (derate @ 115 input)
Wiring Options:	1) Single 208-240VAC, 3 phase, 4 wire WYE ('Y') input or 2) 3 x separate 208-240VAC, 2 wire inputs
Frequency Range:	45-65 Hz
Power Factor:	>0.99
Efficiency:	>94% (from 30-95% output power)

DC Output

Voltage	-48 volt
Output Ratings:	Constant power output from 48V to 58V
Nominal Voltage:	48V
Rated Voltage:	58V

Power:

Rated maximum System Output Power:	14,000W @ -48V,
Polarity:	Positive Earth (or specify)
Individual Rectifier Power: (48 volt)	<u>2000 watt</u>
Amperage @ 230 vac in	37
Amperage @ 115 vac in	21

DC Distribution:

Load:	18 breaker position capacity, available amperages (specify) 6A, 10A, 15A, 20A, 30A, and 63A with tripped breaker alarm
Battery:	4 x 100A battery circuit breakers.
Breaker Fail Detection:	Electronic fail detection on both load and battery breakers
Low Voltage Battery Disconnect:	300A battery LVD installed standard, with disconnect alarm

Monitoring & Control:

Monitors all power system conditions including DC voltage, rectifier current, battery current, battery temperature, and distribution failure. Visual notification of alarm conditions by LED's and a 4 line x 16 character alpha numeric display mounted on the front panel, with remote notification being enabled by relay contacts, TCP/IP, SNMP. It has a built-in web based configurator allowing setup of system parameters using a web browser and utilizes a USB communications port which allows for local monitoring of system operations as well as easy downloading of configuration files for multiple site installations.

General System

Protection:

Current Limit:	Adjustable to 50-100% of maximum rated current.
Over Temperature:	Automatic current reduction, backup shutdown protection.
Polarity Reversal:	Output fuse with crowbar diode.
Over Voltage:	Adjustable limit.
Input Voltage:	Auto shutdown, auto restart when correct voltage restored.
Input Inrush:	<2x maximum input current.
Input Fuses:	In phase and neutral.

Technical Characteristics:

Noise:	Ripple <100Hz: <1mV rms unweighted
Voice band 100Hz-5KHz:	<1mV rms psophometric
Wide band 5kHz-1MHz:	<5mV rms unweighted
Peak to Peak 0-20MHz:	<100mV peak to peak
Isolation:	Input to Output: 4000V DC.
Input to Chassis:	3500V DC (VDR to chassis removed)
Output to Chassis:	2100V DC
Regulation:	Line = $\pm 0.1\%$, Load = $\pm 0.5\%$ (no load to full load)

Mechanical

Shelf: Dimensions / Weight:	19" W x 8.75" H x 15.35" D / 35.15 Lbs. (excluding rectifier modules)
Rectifiers: Dimensions / Weight:	4.25" W x 2.75" W x 11.1" D / 3.15 Lbs
Cooling:	Forced cooled.

Environmental

Ambient Temperature: Range:	Nominal: 25+/-5° C -10° C to +70° C (maximum output power is derated above +50° C)
Humidity:	5-95% RH (non-condensing)
Altitude:	<8,202 ft., De-rate maximum ambient temperature by 4° C per 3,280 ft. above sea level.

Compliances

Safety:	EN60950
Electrostatic Discharge:	CISPR24
Radiated Radio Freq:	CISPR22
AC Harmonics:	EN61000-3-2
AC Flicker & Fluctuation:	EN61000-3-3
Other:	CE & RoHS compliant



Powering the Network

Sentinel Power System

Smart Power



**Incredible Functionality, Scalability and Web Monitoring
in a 1 RU, 600 Watt to 1.8 Kw, 48V DC Power System**

- 19", 1U rackmount shelf with integrated power distribution and SNMP digital controller
- 90-250 VAC input, power factor corrected
- 3 power bays accept 600 watt modular rectifiers, -48V
- 33 amp, 1800 watt total max. output capacity
- Output temperature compensated for precise battery charging
- 4 DC circuit breaker distribution capacity, with tripped breaker alarm
- Master disconnect breaker for two battery strings, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP Web interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions
- General Purpose Digital Inputs for user configured external alarms
- Low voltage disconnect built-in
- Easily configures to meet site power requirements

Complete system design and assembly to your application parameters: rectifier configuration, distribution circuit breaker installation and programming of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Output Amps Cont.	Watts	Weight
RM-648	5.8/2.9	-54.4 VDC, adjustable 54 - 58 VDC	11A	600	1.9 lbs.

Shelf	Input Voltage Range	Configuration	Size	Weight
SRS-48	90-300V, 45-65 Hz.	3 Sentinel Rectifiers (-48 V bays), Controller, 4 DC Circuit Breaker Distribution, 2 x 30A Battery Breakers	19/23", 1 RU	19.84 lbs.

* 23" adapters required, model SRS-1U

Smart Power Features

Newmar power systems embed the latest technology in smart software to provide the ultimate in intelligent system functionality.

Elements include:

- **Smart Set-Up:** An extensive menu of system parameters for customization per site
- **Smart On-Site Data Viewing:** All system data accessible on-site by laptop via USB
- **Smart Viewing by Web:** Voltages, load, and battery performance data (Ethernet, RJ45)
- **Smart Automatic System Adjustments:** Temperature Compensated charging, low voltage disconnect, battery equalization, fast charging
- **Smart Alarm Notifications:** Voltage, temperature as well as several user defined

General Specifications

AC Input

Nominal: 115 or 230VAC (power cord with NEMA-5-20 plug attached)

DC Distribution

Load: 4 breaker position capacity, available amperages (specify) 6A, 10A, 20A, 30 amp, with tripped breaker alarm

Battery: 2 x 30A battery circuit breakers, with tripped breaker alarm

Low Voltage Battery Disconnect: 80A battery LVD installed, with disconnect alarm

Wiring Option: Battery Cable, 8 AWG, 7' Length (P/N: 433-8007-0)



Newport Beach, CA USA

Powering the Network

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Centurion II Power System

Smart Power



Incredible Functionality, Scalability and Web Monitoring in a 2 RU, 1.0 to 6.0 Kw, -24/48V DC Power System

- 19", 2U rackmount shelf with integrated power distribution
- 90-250 VAC input, Power Factor Corrected
- 3 power bays accept 1000 or 2000 watt modular rectifiers
- 111 amp, 6000 watt total max. output capacity, (74 Amp, 4000 Watt, N+1) @ - 48 VDC
- Output temperature compensated for precise battery charging
- 16 DC circuit breaker distribution capacity, with tripped breaker alarm
- Master disconnect breakers for two battery strings, with tripped breaker alarm
- Controller with digital display of system parameters with TCP/IP Web interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions and dry contacts for user programmable alarms
- General Purpose Digital Inputs for user configured external alarms
- Low voltage disconnect built in
- Easily configures to meet site power requirements

Complete system design and assembly to your application parameters: rectifier configuration, circuit breaker installation, and programing of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Output Amps Cont.	Watts	Weight
C2R-1000	@ <175 VAC = 6.2A	-54.4 VDC, adjustable 48 - 58 VDC	18A*	1000	3.5 Lbs.
C2R-2000	@ <175 VAC = 12.5A	+27.2 VDC, adjustable 24 - 29 VDC	37A*	1000	3.5 Lbs.
C2RX-2048	@ <175 VAC = 12.5A	-54.4 VDC, adjustable 48 - 58 VDC	37A*	2000	3.5 Lbs.

* @ 120 VAC: Derate 2 kW rectifiers 41%; 1kW rectifiers 33%

Shelf	Input Voltage Range	Configuration	Size	Weight
C2RS-24	90-300V (derate @ 115 input), 45-65 Hz.	3 Centurion II Rectifiers (+24 V), Controller, 16 DC Circuit Breaker Distribution, 2 x 100A Battery Breakers	19/23", 2 RU	19.84 Lbs.
C2RS-48		3 Centurion II Rectifiers (-48 V), Controller, 16 DC Circuit Breaker Distribution, 2 x 100A Battery Breakers		

General Specifications

Input: Nominal: 230V
Voltage Range: 90 - 300V (derate @ 115 input)
Frequency Range: 45 - 65 Hz
Power Factor: >0.99
Efficiency: >94% (from 30-95% output power)
Current Draw @ 230 VAC: 1000W Rectifier: 4.6 Amps
 2000W Rectifier: 9.2 Amps

Ambient Temperature: Nominal: 25+/-5° C, 5-95% RH (non-condensing)
Range: -10° C to +70° C (derate above +50° C)
Altitude: <8,202 ft., De-rate maximum ambient temperature by 4° C per 3,280 ft. above sea level
Wiring Option: Battery Cable, 2 AWG, 7' Length
 (P/N: 435-2007-0)

The Centurion II Power System features Smart Power, see page 3 for more information.



Powering the Network

Scout Power System

New!



12V Redundant Power System

The Scout is a compact, high power density 12 volt rackmount power system that brings telecom power technology to 12 volt base station radio applications to power transmitters and maintain back-up batteries. Its dual 100 amp hot swap rectifiers configured in N+1 redundancy provides fault tolerant reliability. Remote monitoring capability provides system administrators with operating status.

Features

- Redundant hot swap rectifiers provide high system reliability
- Powers transmitters and maintains back-up batteries
- 100 amp output per module - 200 amp system capacity
- Controller module provides Web based remote monitoring and alarms, and digital LCD display of DC volts and amps
- Compact 1U rackmount shelf
- Optional LVD and power distribution shelf

Specifications

Input

Voltage: 90 - 264 VAC, 50 - 60 hz. via IEC socket (x2)

Current (per module): 13 amps @ 115 VAC, 7 amps @ 230 VAC

Output

Voltage: 13.6 VDC, adjustable 10.5 - 14.0 VDC

Power (per module): 1200 watts, 100 amps @ 230 VAC input, 1140 watts, 95 amps @ 115 VAC input

Protection: Short circuit, overvoltage, current limit, over-temperature

Monitors

- LCD Digital Display: DC volt and current
- Remote via Ethernet
- DC ok via TTL
- AC fail
- Over-temp
- Fan fail

Operating Temperature: -40 to + 70° C

Mechanical: 19" rackmount, flush, 1RU, 13.75" depth

Safety Compliance: UL 60950

Scout System Power Configurations		
Input	# of Rectifiers Installed	
	1	2
230 VAC	100 Amps, 1200 Watts	200 Amps, 2400 Watts
115 VAC	95 Amps, 1140 Watts	190 Amps, 2280 Watts

Optional System Component: Low Voltage Disconnect, Circuit Breaker Distribution Shelf with DC System Bus/Tie Points Creates Complete Power System



PFM-500

Power Function Manager, 500 amps

Preliminary specifications
subject to change without notice.



Newport Beach, CA USA

Powering the Network

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Unity Rectifier System

The Unity Rectifier System comprises a low profile 1.75" (1 RU) shelf which accommodates up to three 150 watt, -48 or +24 volt hot-swap rectifiers, plus an optional GMT fuse distribution panel. The system is scalable/adaptable for N, N+1 or N+2 configurations. Form C status contacts enable remote alarms for the rectifiers and fuse distribution circuits. Front panel OK/FAIL LED's allow monitoring status of each rectifier individually.



Unity Rectifier System

Shelf	Input	Capacity	Size	Weight		
URS	115/230 VAC Nom.	3 Unity Rectifiers (-48 or +24 V), 1 GMT fuse panel	19/23" Rackmount, 1 RU	6.7 lbs.		
Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Output Amps Cont.	Watts	Size	Weight
UR48-3	2.2/1.1	-54.4 VDC, adjustable 42-56 VDC	3	150	1 RU	1.9 lbs.
UR24-6	2.2/1.1	+27.2 VDC, adjustable 21-28 VDC	6	150	1 RU	1.9 lbs.
GMT Panel	Nominal Input/Output	Total Fuse Fuse Capacity	Total Current Capacity	Size	Weight	
UFP-5	-48 or +24 VDC	5	20A	1 RU	1 lbs.	

Unity Stand-Alone Rectifier

Rectifier	Input Amps @ Full Load 115/230V	Output Voltage	Amps Cont. Output	Watts	Weight
USAR48-3	2.2/1.1	-54.4 VDC, adjustable 42-56 VDC	3	150	2.8 lbs.
USAR24-6	2.2/1.1	+27.2 VDC, adjustable 21-28 VDC	6	150	2.8 lbs.

Features

- 150 watt rectifier units - 48 or 24 volt, slide and lock into the Unity Shelf
- Shelf accommodates up to three rectifiers—450 watts total—plus an optional five-position GMT fuse panel
- Scalable/adaptable hot swap configuration: N, N+1, N+2
- Front panel status indicators, output voltage test points and adjustment potentiometers
- Individual or summary rectifier alarm contacts; Form C
- Summary fuse panel alarm contacts; Form C
- 115/230 VAC shelf/rectifier input
- GMT fuse panel: Five positions, easy rear panel wiring to loads, fuse access at front

Unity Rectifiers

Models: UR48-3, UR24-6

Input Voltage/Frequency/PF: 85-264 VAC* / 47-63 Hz. / .96-.98

Input Amperage: 2.2 amps @ 115V, 1.1 amps @ 230V

Output Voltage/Amperage*:

UR48-3: -54.4 VDC, adjustable 42-56 VDC, 3 amps continuous

UR24-6: +27.2 VDC, adjustable 21-28 VDC, 6 amps continuous

*100 % output power available from 105 to 264 VAC; Derate output linearly from 100% @ 105 VAC to 80% @ 85 VAC

Efficiency: 83% per rectifier

Regulation/Ripple: +/-2% / UR24-6: 150 mV, UR48-3: 230 mV

Protection: Over-voltage, current limiting, over-temp, forced air cooling

Alarms/Indicators: Output failure contacts; Form C

Front panel LED indications: "DC OK/DC FAIL"

Front panel voltage test points and adjustment

Operating Temperature: -10°C to +60°C; 100 % load to +50°C; Derate linearly to 80% load @ 60°C

Design Standards: EN55022 Class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, UL 1950

Approvals: UL Recognized 60950

Unity Rectifier Shelf

Model: URS

Input: 115/230 VAC nominal

Capacity: Up to Three Unity Rectifiers, -48 or +24 volt and one GMT Fuse Panel (UFP-5)

Mounting: 19" or 23" rack; center or flush mount

Unity Fuse Distribution Panel

Model: UFP-5

Voltage: -48 VDC or +24 VDC nominal (selectable by jumper)

Current: 20 amps max. total

Capacity: Five GMT fuses, 10 amps max. per individual fuse

Available Amperages: 1, 3, 5, 7.5, 10, 15 Amps

Alarms/Indicators:

Output failure summary alarm contacts; Form C

Front panel blown fuse summary LED indicator

Unity Stand-Alone Rectifier

For applications that do not require rack-mounting or redundancy, the Unity is available as a stand-alone rectifier. A versatile flange permits a myriad of mounting options, such as on the side of rack rails, inside cabinets, on walls or under shelves, maximizing use of restricted spaces.

The unit comes with a 6' power cord and a rear-mounted terminal block for easy wiring.

Performance specifications are identical to single Unity Rectifiers detailed on this page.



Models: USAR48-3 and USAR24-6



Powering the Network

Site Power System



The Site Power System (SPS) series provides a complete DC power solution that integrates quickly with batteries, loads, and monitors. Available in 12, 24 and -48 volt configurations, the compact 300 watt assembly contains: power supply with temperature compensated, automatic boost/float battery charge cycle; low voltage disconnect; and programmable alarm contacts, all in a compact case. Versatile installation options include wall mount, 19" rackmount, and DIN-Rail. High operating temperature rating with convection cooling make the unit ideal for remote site shelters and pole mount enclosure applications, as well as private network base stations and microwave sites.

Features

- Well regulated noise free 300 watt output - no interference with sensitive electronic loads
- Separate Battery Charger output with remote temperature compensation sensor
- Automatic Boost voltage output after AC power failure quickly recovers battery
- Low voltage disconnect protects batteries from over discharge
- Output current indicator LEDs
- Wide temperature operating range (-10 to +60° C) with convection cooling - no fans to service
- Alarm contacts interface with remote monitor systems
- Active load sharing allows wiring in N+1 configuration for redundancy and/or in parallel for higher current capacity
- Optional Rack and DIN-Rail mounting bracket

Models	Input All Models	Output Voltage	Output Amps	Size/Weight All Models
SPS 12-20	100 - 275 VAC, 50 - 60 Hz.	12	20	12.25" W x 5.75" H x 2.45" D, (311mm x 146mm x 62mm) 3.4 Lbs./1.5 Kg.
SPS 24-10		24	10	
SPS 48-6		48	6	



Powering the Network

Site Power System

Specifications: Models SPS 12-20, SPS 24-10, & SPS 48-6

AC Input

Nominal:	110/220V, 50/60Hz
Voltage Range:	100-275V AC (full power output), 85-100V AC (reduced power output)
Frequency Range:	45-66Hz
Power Factor/Efficiency:	>0.99 (full load)/87%
Input Fuses:	Fuses in phase & neutral
Maximum Input Current:	4A
Protection:	
Input Voltage:	Automatic shutdown, restarts automatically when correct voltage restored.
Input Rush:	<2x maximum input current.

DC Output

	SPS 12-20	SPS 24-10	SPS 48-6
Nominal Voltage:	12V	24V	48V
Rated Voltage:	13.6V	27.2V	54V
Voltage Range:	11-15V	22-30V	44-60V
Maximum Current:	23A	10A	6A
Redundancy/Scalability:	Ok to wire in parallel, active load sharing		
Temperature Compensation:	Output voltage slope adjustable 0.1 to 0.2%/°C; 3' cable with battery lug sensor provided		
Regulation:			
Line/Load:	±0.1%/±0.5% (no load to full load)		
Hold-up Time:	>15ms for 20% output voltage drop.		
Start-up Time:	Walk-in delay 2 seconds (depends on AC input voltage)		

Protection

Current Limit:	Adjustable to 50-100% of maximum rated current
Over Temp:	Automatic current turndown, backup shutdown protection
Polarity Reversal:	Output fuse with crowbar diode
Over Voltage:	Adjustable limit
Noise: (under nominal conditions)	
Ripple	<100Hz: <5mV rms
Voice Band 100Hz to 5kHz:	<1mV rms psophometric
Wide Band 5kHz to 1 MHz:	<5mV rms
Peak to Peak 0 to 20MHz:	<50mV p-p

Isolation

Input to Output:	3000V AC
Input to Chassis:	2500V AC (VDR to chassis removed.)
Output to Chassis:	1500V AC

Environmental

Cooling:	Convection cooled
Range:	-10 to +60°C
Humidity:	5-95% RH (non-condensing)
Altitude:	<7500m de-rate maximum ambient temperature by +4° C per 3000m above sea level

Mechanical

Case:	Painted Aluminum
Mounting:	Wall or enclosure back plane, vertical orientation
Dimensions:	12.25" W x 6.40" H x 2.45" D; (311mm x 163mm x 62mm)
Weight:	3.4 lbs.; 1.5kg
Connections:	
AC:	IEC 320 universal connection, 3 foot power cord provided, NEMA 5-15R
Output to Load:	4 way lumberg macromodule, screw style
Output to batteries:	4 way lumberg macromodule, screw style
Temperature Sensor:	2 way lumberg macromodule, (pre-installed on 6 foot cable)
Monitor Connection:	RJ45

Standard Features

Output Current Indicator:	Ten segment red LED "dot" display
Auto Float/Boost:	Rectifier enters boost mode at power up. When battery current reduces to float threshold limit (adjustable from 0.1A to 40% MRC), unit reverts to float voltage setting. When in boost but out of current limit, rectifier will automatically switch back to float after approximately four hours. If battery current exceeds the float threshold limit when the rectifier is in float mode it will automatically switch to boost mode.
Alarm and Indicator Controls:	Positive V out, Load share signal (in/out), External shutdown, Open collector 'off normal' alarm (OSVD, over temp. limit), LVD synchronisation signal (in/out) Temperature compensation input signal, Open collector rectifier fail (via 4k7 resistor), Open collector mains fail, Negative V out

	SPS 12-20	SPS 24-10	SPS 48-6
Low Voltage Disconnect:			
Voltage Adjustment Range:	10-12V	19-24V	39-48V
Maximum Load Current:	20A	10A	6A
Internal Alarm Card:	4x N.O or N.C (selectable) relay contacts with single common for rectifier fail, off normal, float low, float high. 1x VF changeover relay contact for mains fail. Relay contacts rated at 100V DC 1A. Connections via "mini combicon" connector accepts 16 AWG (1.5mm diameter) wire.		

LED Indicators:	Green - AC on. (primary converter operating) Green - Temperature probe connected and within normal limits. Red - Rectifier 'failed'. Green - Rectifier in 'float' mode. Yellow - Rectifier in 'boost' mode. Yellow - Rectifier in 'current' limit. Red - Rectifier 'off normal'. (over temp., OVSD, low output volts)
-----------------	---

Internal Adjustments:

Float voltage, Boost voltage, Over voltage shut down, Current limit, Temperature compensation slope, Auto boost to float threshold limit, Load disconnect voltage, Load disconnect hysteresis voltage

Design Standards

EN60950, Electrostatic Discharge: CISPR24, Radiated Radio Frequency: CISPR22, AC Harmonics: EN61000-3-2, AC Flicker and Fluctuation: EN61000-3-3, CE

Optional Equipment:

Rackmount Bracket, 19", 4 RU (7 inches), DIN-Rail Adapter Bracket

Specs subject to change.



Powering the Network

RPS Power Systems

RPS Rack Power Systems feature PM Series rectifiers and PFM Controller.

Our engineering team offers comprehensive system integration services, including consultation, configuration, manufacturing, assembly, test, and delivery of fully integrated and functional power plants. We provide rapid delivery of complete systems, precisely tailored to meet your site requirements. See opposite page for basic menu of components offered in configuring your system.

Project Consultation

The process begins with a comprehensive analysis of your project's power requirements, offering comprehensive solutions based on all relevant factors, including:

- Load requirements and tolerances
- Site AC power considerations
- Hot swap and hot standby configuration
- Co-location compatibility
- Fault tolerance/redundancy
- Back-up battery run time calculations
- Power distribution requirements
- Remote monitoring and alarming

Engineering and Configuration

A comprehensive project proposal with a detailed diagram of the proposed custom power system is submitted to you for approval.

Rack Assembly

All necessary components are installed and wired in racks or cabinets according to the particular site requirements. These components are typically manufactured and stocked by NEWMAR, thus assuring high reliability and short lead times for system delivery.

Testing

Each rack component undergoes rigorous "burn-in" testing individually, then the assembled rack system is again fully tested under simulated site load and function conditions to ensure maximum reliability.



Documentation

Custom user manuals are provided with each system, consisting of detailed operation and troubleshooting instructions for each system component, complete schematic diagrams.

Shipment

Each rack system is rigidly secured to a custom-built shipping skid and air ride trucked directly to your installation site.

Aftersale Support

A duplicate system file, including detailed photo of the assembled power plant, is maintained at the factory in order to provide ongoing technical support of the system, as needed.

Contact Jeff Wright at jeffw@newmarpower.com to discuss your requirements.

RPS Power System Components

Select from the following components to configure your system.

Power Modules							
	Quantity Installed	Total Amps	N+1 Amps		Quantity Installed	Total Amps	N+1 Amps
12 Volt				24 Volt			
PM-12-40	2	40	40	PM-24-20	2	22	20
	3	72	40		3	36	20
	4	108	40		4	54	20
	5	180	40		5	72	20
	6	216	40		6	90	20
PM-12-80	2	80	80	PM-24-35	2	35	35
	3	144	80		3	63	35
	4	288	80		4	94.5	35
	5	360	80		5	126	35
	6	432	80		6	157.5	35

48 Volt			
PM-48-20	2	20	20
	3	36	20
	4	54	20
	5	72	20
	6	90	20
PM-24-50	2	50	50
	3	90	50
	4	135	50



Power Module
See page 24 for specifications

Power Function Manager - PFM-400

Provided Functions:

- Low Voltage Disconnect
- Metering
- Rectifiers and Battery Tie Points
- Distribution circuit breakers



See page 26 for specifications

Options

Additional Distribution Panel:

- DST-10A
- DST-20A
- DST-FB

Batteries & Accessories

- Front Terminals Batteries - page 49
- Battery Disconnect Panels - page 83
- Battery Trays - page 84

Remote Monitoring

- Site Power Monitor
- Site Monitor and Control



Power Distribution
See page 58, 60 for specifications



Remote Monitoring
See page 65
for specifications



Powering the Network

Power Modules



These versatile Rectifier Modules function as either power supplies or battery chargers for 12, 24 or 48 volt systems; positive, negative or floating ground. They may be employed singly or in combination, enabling the installer to scale the system

anywhere from 500 to 10,000 watts per rack. Units may be paralleled for N + 1 redundancy and alarm contacts allow local or remote monitoring. An optional DC quick connect wiring kit allows easy replacement of modules without system shutdown.

Power Modules may be used separately as a power source, or they may be integrated with the Power Function Manager (see RPS System **page 12** to greatly expand the system capability with other functions such as digital output monitoring, powering multiple loads via circuit breaker distribution and low voltage battery disconnect.

Features

- 12, 24 or 48 volts output; pos., neg. or floating ground
- 115 or 230 VAC, 50-60 Hz input 560 & 1000 watt models
- 230 VAC only 2200 watt model
- 560, 1000 or 2200 watts per module (approx.)
- Built-in oring diode for parallel or N + 1 configuration
- Power supply or battery charger operation (DC UPS system)
- Optional battery charging circuit: three-step charging, gel/lead-acid switch, and temperature compensation
- Form C alarm contacts
- 19" or 23", 2 RU, flush or 6" forward rackmount



Power Modules integrated in complete system, see page 26 for details

Model	Input Amps @ Full Load 115/230V	Output		Amps Cont. +	Watts	Weight	
		VDC V Out	VDC V2			Lbs	Kg.
PM-12-40A	8.5/4.3	13.6	14.3	40	560	12.2	5.5
PM-12-80	16/8	13.6	—	80	1000	15.2	6.9
PM-24-20	8.5/4.3	27.2	27.9	20	560	12.2	5.5
PM-24-40	16/8	27.2	—	40	1000	15.2	6.9
PM-48-10	8.5/4.3	54.4	55.1	10	560	12.2	5.5
PM-48-20	16/8	54.4	—	20	1000	14.0	6.4
PM-48-50	*/22	54.4	—	50	2200	34	15

VDC (V out) Measured at output terminal with oring diode

* 230 VAC input only

VDC (V2) Measured at direct output terminal

+ For parallel configuration/load sharing derate output 10%

Power Modules

Performance Specifications

Input:

- 85 - 135/170-270 VAC (selectable), 47 - 63 Hz., 560 watt models
- 90 - 265 VAC, 1000 watt models
- 207 - 253 VAC, 2200 watt model

Power Factor: 0.7, 560W & 2200W models

0.98, 1000W models

Regulation: $\pm 1\%$ at direct output (V2);
 $\pm 2\%$ through "oring" diode (V out)

Ripple: 1% (Typical)

Efficiency: 80-85% @ full load

Front panel Output Voltage Adjustment

Pot Range: $\pm 10\%$

Altitude Range: Full output to 5,000 feet. Derate output current 4% per 1,000 feet to 10,000 feet max.

Temperature Rating

560 watt models: -40° C to +60° C;

Derate linearly from 100% load @ 50° C to 75% @ 60° C

1000 watt models: -20° C to + 70° C;

Derate linearly from 100% load @ 50° C to 50% @ 70° C

2200 watt model: 0 - 50° C

Mechanical/General

- Powder coated aluminum front panel and cover
- Vinyl laminated base and cover
- 19" Rackmount brackets provided
- Wallmount via optional brackets
- AC Input wiring:
 - 560 watt units: IEC AC entry, 6' IEC cord with NEMA 5-15 plug provided
 - 1000 watt units: IEC entry, 6' IEC power cord with NEMA 20 plug provided
 - 2200 watt unit: Hardwire junction box, no power cord provided
- 1/4" -20 Output stud (560 watt models)
- Output bus bar (1,000 & 2200 watt models) with 1/4" - 20 bolts
- Output "OK" L.E.D.
- Multi color LED: Green = Ok, Red = Fail (1000W models only)
- Loss-of-output alarm contacts- Form C, plus loss of AC alarm contacts Form C (1000 & 2200 watt units only)
- Front panel voltage test points

Options

- Three stage charger function with gel/lead-acid selector Model: CFB (560 & 1000 watts only)
- Temperature compensation (for battery charging). All models.
- DC Quick Connect Wiring Kit:
 - 560 watt models:** QCK-3 (for 2-3 unit PM system) & QCK-6 (for 4-6 unit PM system)
 - 1000 watt models:** QCK-3A (for 2-3 unit PM system) & QCK-6A (for 4-6 unit PM system)
 - 2200 watt model:** CCK-4
- "Universal" mounting bracket; Model: UMB-PM (500 & 1KW models only)
- Metering, alarms, LVD and distribution breakers (PFM-400 or ULM-100 module options)

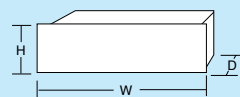
Protection

- Output fuse for reverse polarity
- Current limit
- Input circuit breaker
- Automatic high temp. output power reduction (560W & 2200W models)
- Forced air cooling with filter provided (560W models only)

Design Standards

- UL 1950 / EN 60950 (Safety)
- EN 50082 (Immunity)
- EN 55014 (Conducted)

Case Size - All Models



Inches	H	W*	D
	3.5	17	20.5
Centimeters			
	13.5	43.2	52.1

*19" mounting brackets provided

Integrated Power Systems

The Integrated Power System (IPS) is a unique multifunction power supply which incorporates built-in battery back-up and numerous power accessories within a single 2RU (3.5") chassis, thus eliminating time-consuming system integration, component sourcing and installation, while saving precious rack space—ideal for any low-to-medium power application requiring AC fault tolerant operation.



Specifications

Model	Input Amps @ Full Load	Output			Supplemental Input Port*	Internal Battery Capacity	Ground Reference
		VDC	Adjustment Range	Amps Continuous			
IPS 48-11	11 / 5.5	54.4	40-60 VDC	11	40 Amps	5 A-H	Positive
IPS 24-22	11 / 5.5	27.2	20-30 VDC	22	40 Amps	10 A-H	Negative
IPS 12-40	11 / 5.5	13.6	10-15 VDC	40	N/A	20 A-H	Negative

AC Input

Input Range (switch selectable):

115V = 92-130 VAC

230V = 184-260 VAC

Frequency: 47-63 Hz

DC Output

Voltage/Amperage: See Matrix above

Maximum Load with External Rectifier

and Battery Inputs: 40 amps

Regulation: Line: $\pm 1\%$, Load: $\pm 2\%$

Ripple: $\pm 1\%$

Power Scaling via Back Panel Quick Connects

External Rectifier Input: 24V, 48V only;
560 or 1,000 watt (see PM Series page 6)

External Battery Bank: 12V/24V/48V

Environmental

Temperature Rating: -10° to + 60° C;

Derate linearly from 100%

load @ 50° C to 75% @ 60° C

Mechanical

Chassis: Aluminum

Rack Size: 19" or 23", 2 RU (3.5")

Cooling: Forced Air

Dimensions: 3.5"H x 17"W x 18"D

Weight: 33 Lbs. (with batteries)

17 Lbs. (without batteries)

Protection

- Current Limit, Short Circuit
- Over Voltage
- Auto Thermal Shutdown/Recovery
- Input Fuse and Circuit Breaker
- Circuit Breaker for Internal Battery
- Low Voltage Battery Disconnect (Adjustable)

Internal Batteries

Type: 12 Volt, 5 A-H Sealed Lead-Acid

Maintenance-Free

Amp-Hour Capacity: See Matrix below

Weight: 4 Lbs. each; 4 Batteries per Unit

Approvals: UL Recognized, DOT and IATA approved for shipment by air

Indicators and Alarms

System "Nominal" indicator lights:

- AC OK
- External Rectifier ON/OK*
- *Except IPS-12-40
- Internal Rectifier On/OK
- Battery Contactor Closed

System "Warning" indicator lights:

- Check System
- Battery Disconnected

Form C Alarm Contacts:

- Summary Failure
- AC Input Failure (Optional)

Options

AC Input Fail Contacts - Specify 115 or 230 VAC

Rectifier/Battery Input Cable Assembly (Model CA-24)

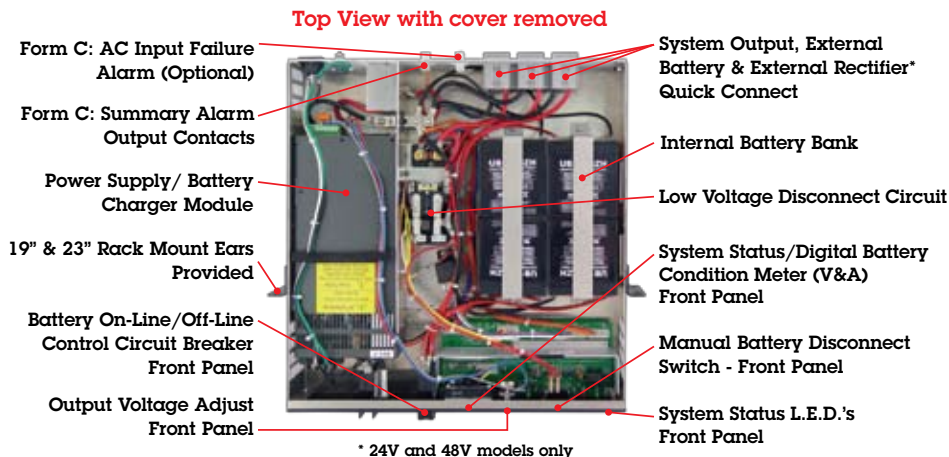
Rear Support Bracket for Flush Mounting
Models: RSB-19 or RSB-23

Distribution Panel Models: DST-10 (UL), DST-20A (UL)

Unit Supplied Without Batteries

Internal Battery Constant Current Performance (Amps) to 1.75 VPC

MODEL	5 MIN.	15 MIN.	30 MIN.	1 HR.	2 HRS.
IPS 48-11	15.0	8.0	5.0	3.0	2.0
IPS 24-22	30.0	16.0	10.0	6.0	4.0
IPS 12-40	40.0	32.0	20.0	12.0	8.0



Powering the Network

Centurion III Shelf with DC-DC Converter

New!



Power -48, 24 and 12 Volt Site Equipment from One System.

Features

- 19", 2U rack mount shelf with integrated power distribution
- 90-250 VAC input, Power Factor Corrected
- 2 power bays accept 1000 or 2000 watt modular rectifiers
 - 74 amp, 4000 watt total max. output capacity, (37 Amp, 2000 Watt, N+1) @ - 48 VDC
- 2 power bays accept DC-DC modules
 - -48V to 12V and -48V to 24V
- Output temperature compensated for precise battery charging
- -48VDC circuit breaker distribution capacity with tripped breaker alarm
- 10 DC circuit breaker distribution capacity, with tripped breaker alarm
- 1 each DC-DC converter output circuit breaker distribution with tripped breaker alarm
- Master disconnect breakers for two 48 volt battery banks, with tripped breaker alarm
- Controller with digital display of up to three system DC system parameters with TCP/IP interface and SNMP monitoring/logging
- Alarm contacts monitor major system functions
- Low voltage disconnect built in
- Easily configures to meet site power requirements

Complete system design and assembly to your application parameters: Rectifier and DC-DC configuration, circuit breaker installation, and programing of alarms and monitors. Installation in a relay rack with batteries and wiring also available.

48V Rectifier Configurations

Watts Per Rectifier	# of Rectifiers Installed	
	1	2
2000	18A (1000W)	36A (2000W)
1000	37A (2000W)	74A (4000W)

DC Converter Configurations

Voltage Conversion	1	2
48 to 24V	560W	1120W
48 to 12V	560W	1120W

Preliminary specifications
subject to change without
notice.



Powering the Network 3-13

Centurion III Shelf with DC-DC Converter

AC Input

Nominal:	230V
Voltage Range:	90-300V (derate @ 115 input)
Frequency Range:	45-65 Hz
Power Factor:	>0.99
Efficiency:	>94% (from 30-95% output power)

DC Output

Voltage	-48 volt, constant power
Output Ratings:	48V to 58V
Nominal Voltage:	48V
Rated Voltage:	58V

Power

Rated maximum System Output Power: 4000W @ -48V

Polarity: Positive earth.

Individual Rectifier Power: 1000 watt 2000 watt

Amperage @ 230 vac in 7 12

Amperage @ 115 vac in* 12 13

* 1kW derated to 650W @ 115VAC, 2kW derated to 1300W @ 115VAC

DC Distribution

Load:	Up to 12 load circuit breakers (6 - 63A)
Battery:	Up to 2 battery circuit breakers (max. 100A)

Monitoring and Control

Display:	Multi-lingual alpha numeric backlit display Serial: 1x USB port on front panel for local PC interface
Communications:	TCP/IP: Ethernet interface for communication using SNMP protocol and internal web based configurator (optional) HTTPS capable Modbus: Supported via TCP/IP
LED Indicators:	Green: Power on/monitor OK Yellow: Non urgent alarm Red: Urgent alarm
Audible:	90dBA buzzer mappable to user defined conditions
Controls:	3x push buttons for parameter setting or viewing on front panel

Signal Inputs:

Serial bus for rectifier control and interface to peripheral modules
6x spare general purpose inputs (analogue/digital)
2x temperature sensors (one fitted)

Alarms:

Relays: 3x alarm and control relays, two of which can be mapped for customized alarm settings (expandable)

Alarm Contacts:

Volt Free Contacts: 0.3A @ 100V (0.15A @ 160V)

Logging Capacity:

Periodic Log: Up to 16,384 records (dependant on number of parameters logged)

Event Log: Up to 16,384 records (dependant on number of parameters logged)

Relay Outputs: Mini combicon to accept 1.5mm wire

USB Port: USB mini B

Connections:

Environmental

Ambient Temperature: Nominal: 25+/-5° C

Range: -10° C to +70° C (maximum output power is derated above +50° C)

Humidity: 5-95% RH (non-condensing)

Altitude: <8,202 ft., De-rate maximum ambient temperature by 4° C per 3,280 ft. above sea level.

Mechanical

Shelf: Dimensions 19" W x 3.5" H x 15.35" D

Weight: 19.84 Lbs. (excluding rectifier modules)

Rectifiers: Dimensions 4.25" W x 2.75" W x 11.1" D

Weight: 3.15 Lbs

Cooling: Forced cooled

Compliances

Safety: EN60950

Electrostatic Discharge: CISPR24

Radiated Radio Frequency: CISPR22

AC Harmonics: EN61000-3-2

AC Flicker and Fluctuation: EN61000-3-3

Other: CE & RoHS compliant

DC-DC Converter

DC Input

	CIII4824	CIII4812
Nominal Input Voltage:	48V DC	48V DC DC
Input Voltage Range:	40-60V DC	40-60V DC

Protection

Fuses:	Fuse in the positive input with crowbar diode
Input Voltage:	Auto shutdown, auto restart when correct voltage restored

DC Output

	CIII4824	CIII4812
Nominal Output Voltage:	24V DC	12V DC
Output Voltage Range:	22-26V DC	11-14V DC
Maximum Output Current:	25.0A	40.0A
Maximum Output Power:	650W	560W
Peak Efficiency:	93.0%	90.0%



Powering the Network

DC Power Plant Engineering

NEWMAR manufactures a broad range of high quality power products for communication applications and has earned a reputation for producing high reliability DC components and systems for powering the wireless network. In addition, NEWMAR's engineering team offers comprehensive system integration services. These include consultation, engineering, manufacturing, assembly, test, and delivery of fully integrated and functional power plants, precisely tailored to meet individual customer requirements.

Project Consultation

The process begins with a comprehensive analysis of your project's power requirements, offering comprehensive solutions based on all relevant factors, including:

- Load requirements and tolerances
- Site AC power considerations
- Colocation compatibility
- Fault tolerance/redundancy
- Hot swap and hot standby configuration
- Back-up battery run time calculation
- Power distribution requirements
- Remote monitoring and alarming

Engineering and Design

A comprehensive project proposal with a detailed diagram of the proposed custom power system is submitted to you for approval.

Rack Assembly

All necessary components are installed and wired in racks or cabinets according to the particular site requirements. These components are typically manufactured and stocked by NEWMAR, thus assuring high reliability and short lead times for system delivery.

Testing

Each rack component undergoes rigorous "burn-in" testing individually, then the assembled rack system is again fully tested under simulated site load and function conditions to ensure maximum reliability.

Documentation

Custom user manuals are provided with each system, consisting of detailed operation and troubleshooting instructions for each system component, complete schematic diagrams, and a wiring interconnect illustration of the system as a whole.

Shipment

Each rack system is rigidly secured to a custom-built shipping skid and trucked directly to your installation site.

After-sale Support

A duplicate system file, including detailed photos of the assembled power plant, is maintained at the factory in order to provide ongoing technical support of the system, as needed.



*All necessary
components
factory installed
to meet your
system
requirements.*



Modular Rectifiers
Page 4



Hot Swap Rectifiers
Pages 3, 6



Power Management System
Page 5



DC-DC Converters
Page 9



DC-AC Inverters
Page 8



Distribution Panels
Fuse, Page 10
Circuit Breaker, Page 11

Battery Strings, Page 14

Trays and Shelves, Page 15

Relay Racks

Power Systems by NEWMAR are currently in service at numerous telecom and other communication sites serving public safety, microwave, cellular, transportation links and remote repeaters. System and project references are available upon request.



Powering the Network

Configure a Rack Power System in 10 Simple Steps

These 10 simple steps will enable you to configure your network or communication site Rack Power System (RPS) by defining your system parameters and distributor preference.

- 1) Rack width? 19" or 23"
- 2) Input voltage? 115 or 230 VAC
- 3) Output voltage? 12, 24, or 48 VDC, or 115/230 VAC
- 4) Load/output in amps or watts?
- 5) Redundant rectifiers? Yes or no
- 6) Number of output loads routed through distribution panel?
- 7) Battery back-up? If yes, for how long?
- 8) Remote monitoring?
- 9) Site location?
- 10) What distributor do you prefer?

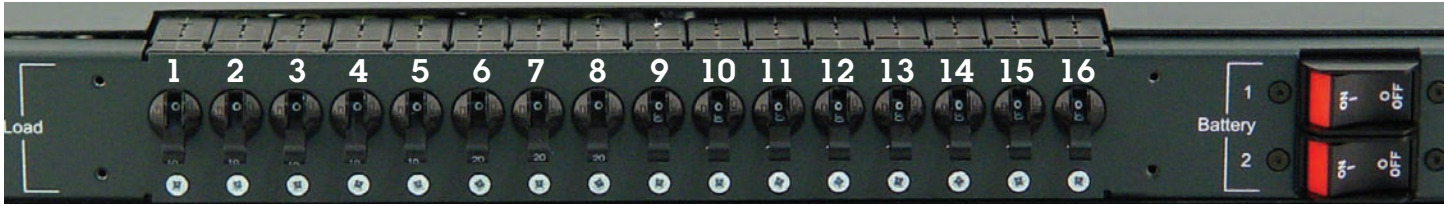
Upon receipt of your response to these questions, we will contact you and your distributor of choice; if you do not have a preferred distributor, we will help you select one. We will create a proposed system layout and your distributor will prepare a quote for a fully integrated power system potentially including: power supplies, DC-DC converters, DC-AC Inverters, circuit breaker or fuse distribution, remote power monitoring, batteries and rack equipment shelving, all fully assembled in a relay rack, wired, tested, and palletized for delivery directly to your site and ready for installation.

For more information on the Rackmount Power Systems, contact **Jeff Wright** by E-mail jeffw@newmarpower.com or by calling **800-854-3906**.

Centurion II Assembly Form

Distribution Circuit Breaker Configuration

Page 2 of 2



Available Breaker Ratings:
6, 10, 15, 20, & 30 Amps

Note: The distribution panel can also be specially modified to accommodate one (only) 50 Amp breaker (P/N: 566-0150-0) which would be installed at circuit breaker position number 1.

**2 Each
Battery Breaker
Installed Standard.**
(Standard can be converted to distribution breakers. See option "A" under Special Programming /Modification)

Position	Amperage
1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
7	_____
8	_____
9	_____
10	_____
11	_____
12	_____
13	_____
14	_____
15	_____
16	_____

Summed value of breaker ratings in positions 1-8 not to exceed 100 amps

Summed value of breaker ratings in positions 9-16 not to exceed 80 amps

Special Programming /Modifications (additional fee applies):

A) Convert battery breaker to distribution breaker: Qty. _____ (2 max., specify 50 or 100 amps)

B) Install Ambient Temperature Sensor: _____ (P/N: 435-0118-0)

C) Modify LVD Activation Settings to: _____ Disconnect, _____ Re-Connect

D) Modify 48 Volt Shelf from Positive to Negative Ground*: _____

*Special Order - allow 4 to 6 weeks

E) 23" Rack Mount Brackets: _____ (P/N: 435-2023-0)

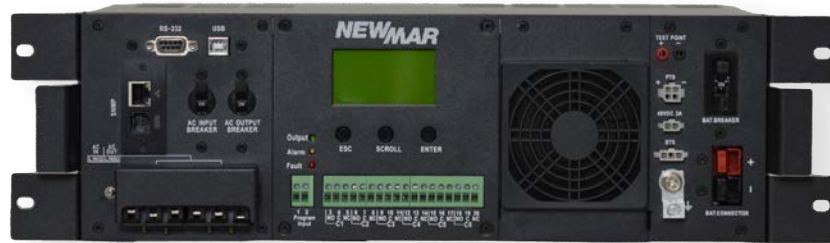
Default LVD Settings

Voltage	Disconnect	Re-Connect
48V	43.0	48.0
24V	21.5	24.0

System Configuration Specified By: _____ Date: _____

Note: If you make changes after your system is configured to your specifications, a re-work fee may apply.

Option to add Manual bypass switch required for D.O.T. traffic installations or any application that needs a bypass (AC-UPS-BP-120-30)



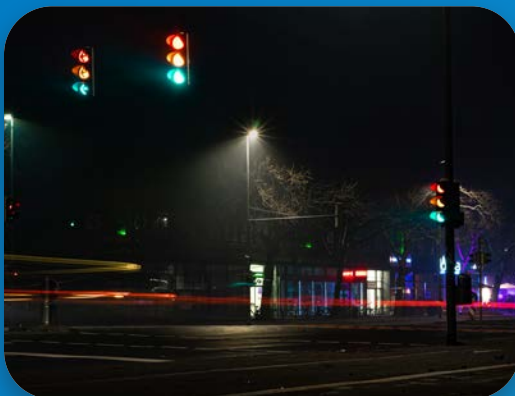
RUGGED AC UPS SERIES

The Rugged AC UPS Series provides critical equipment a secure source of clean AC power during utility grid failures and brownouts. A line-interactive UPS, the series features wide range Automatic Voltage Regulation (AVR) allowing the UPS to stay in normal operation without transferring to back-up mode during temporary voltage irregularities, preserving and extending battery life cycle. The series also contains temperature compensated battery charging which enhances battery life.

Engineered to meet the demanding applications and harsh environments of outdoor cabinets, traffic and Intelligent Transportation Systems (ITS), public safety and remote communication sites; the Rugged AC UPS features a wide AC input voltage range of 88 - 152V AC and operates at extreme hot and cold temperatures.

FEATURES

- Wide range of Automatic Voltage Regulation (AVR)
- Temperature compensated charging
- Fast transfer time < 5ms typical
- SNMP network card, RS-232 and USB ports included
- LCD screen for quick access to system diagnostics
- Front panel connections for easy install
- Forced air cooled with fan filter (field replaceable)
- Alarm contacts (six sets)
- 19" rack or cabinet mounting
- AC Wiring: hard wired AC input/output

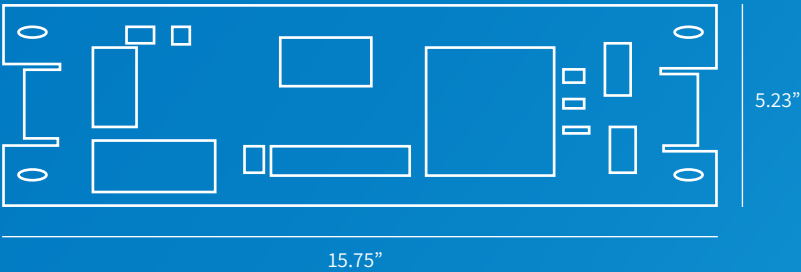


SPECIFICATIONS

Input Voltage Range	88 - 152V AC, User Programmable. Default set @ 100 - 130V AC	Surge Capacity	200% *rated power for 5 secs
Transfer time (typical)	UPS Mode: 5ms Normal Mode: 20ms Generator Mode: 25ms	Back Feed Protection	Yes
Site Fault Detection	Yes	Charging Current	2A/4A/6A/8A/10A adjustable
Efficiency (Line Mode)	95% typical	Charging Algorithm	3 step
Output Waveform	Pure sine wave	Operating Temperature	-40° to 80° C
Nominal Output Voltage	120V AC, +/- 5%	Storage Temperature	-50° to 80° C
Output Frequency	50/60 Hz +/- 0.1%	Relative Humidity	5 to 95% non-condensing
Nominal DC Voltage	48V DC (2000V A and 1200V A) 24V DC (700V A)	Audible Noise	< 53dB
Low DC Voltage Warning	42 - 55V DC (adjustable)	Cooling	Forced air, field replaceable fan and filtered
No Load Power Consumption	28 watts at rated nominal DC Voltage	EMI	Class A FCC/CISPR [EN50091-2: 1995]
THD (Bat. Mode)	<3% (full resistive load)	Surge Protection	IEEE/ANSI C.62.41 & 2KV, L-N
Load Crest Factor	3:1 @ rated load	Certifications	TUV Rhineland certified to UL Standard 1778: 2014 R10.17, CSA Standard C22.2 No. 107.3-14+G11 & FCC Part 15A (EMC) specifications
Overload Protection	5s @ ≥ 125 - 150% load 60s @ 110 - 125% load		
Output Short Circuit Protection	Output breaker/electronic current limit/firmware		

MODEL	INPUT VOLTAGE	OUTPUT VA/ WATTS (CONTINUOUS)	POWER FACTOR	NOMINAL BATTERY VOLTAGE	DIMENSIONS (H x W x D)	WEIGHT
AC-UPS-24-700	120V AC	700/700	1	24V DC	5.23" x 15.75" 9.45"	23 lbs
AC-UPS-48-1200	120V AC	1200/1200	1	48V DC	5.23" x 15.75" 9.45"	28.6 lbs
AC-UPS-48-2000	120V AC	2000/1600	0.8	48V DC	5.23" x 15.75" 9.45"	28.6lbs

DIMENSIONS



DIN-Rail DC UPS

**Powers Loads and Charges Back-Up Battery,
Ideal for Security, Wisp, Automation and Wireless System Transmitter Applications**

- Combines all system power functions: power supply, battery charger, UPS circuitry and status monitoring in ONE compact DIN rail mount unit
- Separate outputs for load and battery
- "Load priority" circuit ensures power is dedicated first to the load, with remainder then allocated to battery charging, thus preventing a discharged battery from impacting operation of critical loads.
- 3 step charging for rapid battery recovery, programmable for battery type, with optional temperature compensation sensor
- Battery automatically supports load anytime AC fails
- Low voltage disconnect prevents total battery discharge
- Operates from street light voltage, 277V AC
- Automatic periodic battery health diagnosis
- High operating temperature range to 70° C
- Alarm contacts: AC fail, battery at risk
- Communication MODBUS via RS-45 Interface (DIN-UPS-48-10/24-20/12-35)
- CE Approved/Designed to UL 1950

Specifications

Front Panel LED Indicators:

- Power Source: AC or on back up
- Battery and System Diagnostics (via blink code)

Settings/Selectors:

- Battery Type: Lead Acid, Gel-Cell
- Charge Current Limit: 20 - 100% of charge rating
- Back-Up Run Time on Batteries:
 - Programmed time limit: 1 - 60 min. (48-10, 24-20, and 12-35 models only)
- Or
- Until LVD disconnect (all models)
- Power Restore Button: re-connects battery without AC present

DIN UPS: 115/230/277 (305) VAC Input

DIN-UPS Model	Output		MODBUS	Case
	Voltage	Power		
12-10*	12 VDC	10 Amps	NA	A
12-35	12 VDC	35 Amps	Yes	C
24-10	24 VDC	10 Amps	NA	B
24-20	24 VDC	20 Amps	Yes	C
48-5	48 VDC	5 Amps	NA	B
48-10	48 VDC	10 Amps	Yes	C

*UL Recognized Component



CAL US
DIN-UPS 12-10



(Case Size A)



DIN-UPS 12-35/24-20/48-10
(Case Size C)



DIN-UPS 24-10/48-5

Signal Outputs (form C):

- AC Fail - operating on back-up power
- Battery abnormal condition (summary contact): Discharged, damaged, disconnected
- MODBUS Communication (DIN-UPS 48-10/24-20/12-35) only)

(Case Size B)

Temperature: -25 to +70° C. Continuous to 50°, de-rate 2.5% per° C >50° C (50% output @ +70° C)

Cooling: Free air, convection

Reliability (MTBF): >300,000 Hours

Protection:

- Low Voltage disconnect at 1.5 volts per cell
- Internal fuse
- Current limiting
- Short circuit and reverse polarity protection
- Thermal overload shut down and recovery

Terminal Blocks: Screw type

Mounting: DIN Rail Bracket (35mm)

Optional:

- Battery temp. sensor, 3 or 10 foot cable length
- BDA/DAS version w/ NFPA compliant alarm signals

Case	Dimensions (H x W x D)	Weight
A	4.5" x 2.6" x 5.3"	2 Lbs.
B	4.5" x 3.9" x 5.3"	2 Lbs.
C	4.5" x 5.9" x 5.3"	4 Lbs.

Powering the Network

DC-DC Converters

Communication sites require isolated DC Converters to provide excellent voltage regulation, low noise, and high efficiency voltage conversion. Reliability is vital under continuous duty operation and high ambient temperatures. All these aspects were incorporated in the design of our rackmount DC Converters.



These units accept a wide input range at 24 or 48 VDC nominal, positive or negative ground, and produce pure 12 or 24 volt power. The solid state circuitry is conservatively designed and semi-conductors are selected and tested to withstand 200% of normal operating power.

Output voltage is maintained within 1% for all line and load conditions and the output is well filtered, allowing use with sensitive transceivers and telecom equipment.

Features

- 48, 24 volt inputs; 12, 24 volt outputs; positive, negative or floating ground
- Input/Output chassis isolation – 250 VDC
- 400 watt output
- Rated for continuous duty at full load
- Excellent regulation under all line/load conditions
- Low ripple provides noise free output
- High efficiency – 87% typical
- Easily adapts to both 19" and 23" racks, center mount (6" from front)
- Output volt and ammeter
- Output voltage adjustment on front panel
- Low profile – occupies two RU (one RU space above and below recommended for cooling)

Model	Input		Output			Dimensions			Weight	
	Voltage (VDC)	Max. Amps	Voltage (VDC)	Output Adjustment	Amperage (Continuous)	H	W	D	Lbs	Kg.
48-12-30RM	40 - 60	12	13.6	12.6 - 14.5	30	3.5"	19"	8.9"	10	4.6
48-24-15RM	40 - 60	12	27.2	25.2 - 29.0	15	3.5"	19"	8.9"	10	4.6
24-12-30RM*	20 - 30	26	27.2	12.6 - 14.5	30	3.5"	19"	8.9"	10	4.6
24-48-8RM	20 - 30	26	54.4	50.4 - 58.0	8	3.5"	19"	8.9"	10	4.6

* Special order - contact factory for availability

Specifications

Performance

Regulation: 1% line/load

Ripple: +/- 1/2% peak-peak max.

Idle Current: 48V: <100 mA, 24V: 300 mA

Efficiency: 85% typical @ 50% load.

Operating Temperature: -20 to 50° C; Derate linearly from 100% @ 50° C to 50% @ 70° C

Isolation: 250 volts input-output-chassis

Mechanical

- Powder coated aluminum front panel, vinyl coated aluminum case
- Mounting brackets provided for 19" or 23" rackmount, center or front
- Easy access terminal blocks on back of unit, with protective cover
- Front panel switch guard provided
- Output voltage adjustment potentiometer recessed in front panel

Protection

- Input and Output circuit breaker
- Current limited/short circuit proof
- High/low input voltage shutdown
- Fail-safe components guard against output over-voltage condition
- Automatic high temperature power reduction starting at 65° C heat sink temp
- Automatic thermal shut down and recovery @ 80° C heat sink temp. (automatic reset @ 55° C heat sink temp.)
- Reverse polarity protection

Options

- Operation as battery charger and/or parallel redundant operation
- Output Failure Alarm Contacts; Form C



Powering the Network



MSRP Price List 1/1/2021

MODEL	PART NUMBER	MSRP	SHIPPING WEIGHT
110-12-18ISP DC Converter (BTO - 10 unit min.)	463-118-0	\$1,276.67	10
110-24-9ISP DC Converter (BTO - 10 unit min)		\$1,368.33	10
115-12-20A Power Supply	400-0141-0	\$1,055.00	21
115-12-35CD Power Supply	400-0154-0	\$1,541.67	37
115-12-8 Power Supply	400-0125-0	\$483.33	11
115-24-10 Power Supply	400-2115-0	\$1,048.33	21
115-24-18CD Power Supply	400-0166-0	\$1,641.67	35
115-24-35CD Power Supply	400-0171-0	\$2,421.67	61
12-1000PS** Inverter ' <i>Special Order</i> '	410-1000-0	\$861.67	11
1-2-120 Battery Isolator	495-1212-0	\$166.67	3
12-12-35I DC Converter	460-0617-0	\$1,510.00	16
12-12-3i Power Stabilizer	460-0123-0	\$205.00	3
12-12-6i Power Stabilizer	460-1212-0	\$318.33	5
12-1500PS** Inverter ' <i>Special Order</i> '	410-1500-2	\$1,206.67	14
12-2000PS** Inverter ' <i>Special Order</i> '	410-2000-5	\$1,718.33	16
12-24-18I DC Converter	460-0618-0	\$1,846.67	17
12-24-7 Step-Up DC Converter 7 AMP	460-2470-0	\$355.00	3
12-24-16 Step-Up DC Converter 16 AMP	460-2417-0	\$661.67	5
12-24-25 Step-Up DC Converter 25 AMP	460-2425-0	\$935.00	6
1-2-70 Battery Isolator	495-1270-1	\$88.33	2
12C Ground Shoe	072-0003-0	\$178.33	4
1-3-120 Battery Isolator	495-1312-1	\$216.67	3
1-3-165 Battery Isolator	495-3162-1	\$311.67	4
1-3-70 Battery Isolator	495-1370-1	\$153.33	2
150-A Filter	380-1150-0	\$210.00	3
18E Ground Shoe	072-0004-0	\$663.33	11
2000TQ-12** Inverter/Charger ' <i>Special Order</i> '	430-1220-0	\$4,455.00	46
22-10 Wire, per foot		\$3.33	
22-15 Wire, per foot		\$3.33	
22-5 Wire, per foot (P/N: 712-2205-0)		\$1.67	
2-3-120 Battery Isolator	495-2312-1	\$430.00	6
2-3-70 Battery Isolator	495-2370-1	\$240.00	3
2400TQ-24** Inverter/Charger ' <i>Special Order</i> '		\$5,053.33	46

24-1000PS** Inverter 'Special Order'	410-1024-0	\$876.67	11
24-1000RM Rackmount Inverter	430-2410-0	\$2,891.67	22
24-12-3 DC Converter	420-2403-0	\$153.33	3
24-24-3I Power Stabilizer	460-0243-0	\$235.00	5
24-24-7I Power Stabilizer	460-0247-0	\$520.00	5
24-48-DHS DC Converter Module, 27 Amp		\$1,596.67	5
24-48-8RM DC Converter	450-5170-2	\$2,408.33	14
3000TQ-12** Inverter/Charger 'Special Order'	430-1230-0	\$6,031.67	75
32-12-6 DC Converter	420-3826-0	\$345.00	4
32-12-10 DC Converter	420-3550-0	\$448.33	6
32-12-15 DC Converter	420-3535-0	\$500.00	6
32-12-25 DC Converter	420-3544-0	\$703.33	10
32-12-35 DC Converter	420-3545-0	\$941.67	11
32-12-50 DC Converter	420-3536-0	\$1,083.33	18
32-24-10 DC Converter (BTO)		\$528.33	6
32-24-15 DC Converter (BTO)		\$601.67	6
32-24-25 DC Converter (BTO)		\$748.33	10
32-24-35 DC Converter (BTO)		\$986.67	11
32-24-50 DC Converter (BTO)		\$1,233.33	18
32-24-6 DC Converter (BTO)		\$438.33	4
3600TQ-24** Inverter/Charger 'Special Order'	430-2436-0	\$6,588.33	75
36-12-6ISP DC Converter	463-3606-0	\$840.00	5
36-12-18ISP DC Converter	463-3618-0	\$1,268.33	10
36-12-35ISP DC Converter	463-4835-0	\$2,175.00	11
36-24-3ISP DC Converter (BTO)		\$881.67	5
36-24-9ISP DC Converter (BTO)		\$1,331.67	10
48-1000IRM** Rackmount Inverter; 220V, 60hz (BTO)		\$2,960.00	23
48-1000RM Rackmount Inverter	430-4810-0	\$2,821.67	23
48-1200RM Rackmount Inverter	430-4812-0	\$2,766.67	
48-12-18I DC Converter	460-0650-0	\$908.33	8
48-12-1i SPM-200 Converter	460-5015-0	\$78.33	2
48-12-30RM DC Converter	450-5170-0	\$2,408.33	17
48-12-35I DC Converter	460-0653-0	\$1,445.00	16
48-12-6I DC Converter	460-0620-0	\$591.67	5
48-1U-1000RM Rackmount Inverter - <i>Being discontinued</i>	430-5020-0	\$2,416.67	15
48-1U-2000RM Rackmount Inverter	430-4820-5	\$4,568.33	15
48-2000IRM** Rackmount Inverter; 220V, 60hz (BTO)		\$5,915.00	25
48-2000RM Rackmount Inverter	430-4820-0	\$5,270.00	25
48-24-15RM DC Converter	450-5170-0	\$2,408.33	15
48-24-18I DC Converter	460-0654-0	\$1,828.33	16

48-24-3I DC Converter (BTO)		\$705.00	5
48-24-9I DC Converter (BTO)		\$1,016.67	8
48-24-DHS DC Converter Module	451-4824-1	\$1,596.67	5
48-3000RM Rackmount Inverter	430-4830-0	\$6,240.00	25
72-12-18ISP DC Converter	463-7208-0	\$1,336.67	10
72-24-9ISP DC Converter (BTO)		\$1,358.33	10
125-1000RM Rack Mount Inverter (BTO)		\$3,028.33	25
125-2000RM Rack Mount Inverter (BTO)		\$5,795.00	25
8A Ground Shoe	072-0002-0	\$170.00	3
ABC-12-6 Battery Charger	440-0620-6	\$425.00	8
AC AMMETER 2.5", 0-100 AAC , Analog	023-1001-2	\$165.00	1
AC AMMETER 2.5", 0-50 AAC , Analog	023-0301-0	\$165.00	1
AC AMMETER 3.5", 0-100 AAC , Analog	023-1001-7	\$166.67	1
AC AMMETER 3.5", 0-50 AAC , Analog	023-0301-5	\$166.67	1
AC CURRENT XFMR, 0-100 AAC	575-9030-0	Contact Factory	
AC CURRENT XFMR, 0-50 AAC	575-9030-0	Contact Factory	
AC-UPS-BP-120-30 Rugged UPS Bypass Switch	431-1230-0	\$420.00	
AC-UPS-24-700 Rugged UPS	431-2407-0	\$1,263.33	
AC-UPS-48-1200 Rugged UPS	431-4812-0	\$1,685.00	
AC-UPS-48-2000 Rugged UPS	431-4820-0	\$2,193.33	
AC VOLTMETER 2.5", 0-150 VAC , Analog	023-1500-0	\$93.33	1
AC VOLTMETER 2.5", 0-300 VAC , Analog	023-3002-0	\$93.33	1
AC VOLTMETER 3.5", 0-150 VAC , Analog	023-1500-5	\$100.00	1
AC VOLTMETER 3.5", 0-300 VAC , Analog	023-3002-5	\$100.00	1
ACCY-IBX Panel Blank	020-0008-8	\$115.00	1
ACCY-IX Panel	020-0008-9	\$215.00	2
ACE Digital Instrument	023-4349-0	\$538.33	1
AC-II Panel	020-0004-5	\$128.33	1
AC-IX Panel	020-0003-5	\$270.00	2
AFB-500 ANL Fuseblock with Cover	100-4407-5	\$36.67	1
ANL Fuse 100 - 500 Amp		\$23.33	1
AP-8000B Annunciator Panel	465-8000-2	\$1,583.33	
APS-160 Automatic Power Selector, 160A	496-2170-5	\$356.67	3
APS-70 , Automatic Power Selector, 70A	496-2170-0	\$130.00	3
AQ-10L/R Small radio Case	116-0008-0	\$63.33	1
AQ-20L/R Medium Radio Case	116-0010-5	\$66.67	1

AQ-Pro Waterproof Radio Case	116-0025-0	\$100.00	1
Battery Tray 19" Wide 350 Lbs, Black		\$313.33	15
Battery Tray 19" x 21" 400 Lbs, Black		\$340.00	17
Battery Tray 19" x 21" 400 Lbs, Gray		\$340.00	17
Battery Tray 23" Wide 350 Lbs, Gray		\$496.67	15
BB-2 Bus Bar	002-3595-2	\$48.33	1
BB-2/8 Bus Bar	002-3595-0	\$80.00	1
BB-5 Bus Bar	002-3595-5	\$90.00	1
BB-8 Bus Bar	002-3595-8	\$120.00	2
BBA-800 Bus Bar Assembly	405-3354-0	\$376.67	4
BDP-1 Battery Disconnect Panel - Specify Breaker Amperage	405-3392-1	\$170.00	5
BDP-2 Battery Disconnect Panel - Specify Breaker Amperage	405-3392-2	\$245.00	7
BDP-High Power 125, 150, 200 or 250A (Specify - BTO)		\$1,616.67	25
BDP-High Power 300, 350 or 400 Amp (Specify - BTO)	405-0400-0	\$2,333.33	25
BDS-DIN-UPS-12-10 BDA/DAS DIN Rail DC UPS	468-1210-0	\$805.00	3
BDS-DIN-UPS-24-10 BDA/DAS DIN Rail DC UPS	468-2410-5	\$858.33	3
BDS-DIN-UPS-48-10 BDA/DAS DIN Rail DC UPS	468-4810-5	\$1,223.33	5
BE-855 Back Enclosure	010-0855-0	\$68.33	1
BI-100 Battery Integrator	490-4345-0	\$186.67	2
BI-200 Battery Integrator	490-4355-0	\$333.33	3
BI-24-100 Battery Integrator	490-4350-0	\$205.00	2
BM Battery, 4 A-H (591-0412-0)		\$100.00	3
BM-48-4 Battery Module	445-4171-2	\$613.33	21
BMS-19/23 Battery Module Shelf	445-4202-0	\$368.33	11
BPL-1 Blank Panel		\$53.33	3
BPL-2 Blank Panel	405-3392-0	\$61.67	3
BPL-3 Blank Panel	405-3395-0	\$76.67	4
BSW2-7 Centurion II Batt String Wiring	435-2007-0	\$98.33	5
BSW8-7 Sentinel Batt String Wiring	433-8007-0	\$88.33	4
BUZZER (for Phone-Com)	117-0100-0	\$13.33	1
BX-1 Junction Box	007-6001-0	\$43.33	1
BX-2 Junction Box	007-6002-0	\$55.00	1
BX-3 Junction Box	007-6003-0	\$65.00	1
C2BP Centurion II Blank Panel		\$48.33	1
C2CB Centurion II (CII) Distribution Circuit Breakers		\$43.33	1
6, 10, 20, and 30 amp			
C2R-2000 CII 48/24V Rectifier	435-4824-0	\$1,205.00	4
C2RX-2048 CII 48V Rectifier 2000W	435-2048-0	\$1,205.00	4

C2RS -24 Centurion II 24V Rectifier shelf		\$3,926.67	21
C2RS- 48 Centurion II 48V Rectifier Shelf		\$3,630.00	21
C2TS-3 Centurion II Temperature Sensor		\$53.33	
C2TS-7 Centurion II Temperature Sensor	435-0275-0	\$53.33	1
C3C-12-40 Centurion III 12VDC DC Converter Module	437-1240-0	\$1,555.00	4
C3C-24-25 Centurion III 24VDC DC Converter Module	437-2425-0	\$1,555.00	4
C3RS-48-124 Centurion III 48/24/12V Rectifier Shelf		\$3,691.67	25
CA-24 Conn./Wire Assembly, 24"	405-4141-0	\$33.33	1
CC-24 Conn./Conn/Wire Assembly, 24"	405-4170-0	\$63.33	1
CCK-4 Connector Kit, 2.5. kW PM Series	405-4685-0	\$438.33	6
CCX-R Thru-Dex	007-2003-0	\$58.33	1
CCX-S Thru-Dex	007-2004-0	\$48.33	1
CCX-T Thru-Dex	007-2005-0	\$48.33	1
CFB Charger Function Board		\$190.00	1
(Plus \$55 fee for installation) CFB optional w/use with PM-12-40, PM-24-20 or PM 48-10			
CFCB Charger Function Board	405-5657-0	\$181.67	
CIRCUIT BREAKERS			
Single Pole , 'A' Frame		\$15.00	1
Double Pole , 'A' Frame		\$48.33	1
Single Pole , High Amp, 'C' Frame		\$53.33	1
Double Pole , High Amp, 'C' Frame 30, 50, & 100A		\$88.33	1
C2CB Centurion & Sentinel Single Pole		\$43.33	1
Commander (CMDRs) Breakers		\$43.33	1
PBA Plug-In Breaker; 5-50 Amp		\$50.00	1
PBA Plug-In Breaker; 75-100 Amp		\$70.00	1
WBS Waterproof Breakers, 50-150A, Clam Shell		\$38.33	1
CK-50 Connector Kit, no wire	405-4140-0	\$23.33	1
CMDRS-48 Commander Shelf 436-1448-0	436-1448-0	\$4,278.33	60
CS-1 Connector Strip, Blister-Pac	007-7001-0	\$13.33	1
CS-2 Connector Strip, Blister-Pac	007-7002-0	\$15.00	1
CS-201 Manual Coax switch	152-0201-0	\$111.67	2
CT Current Transformer (for ACE)		\$123.33	1
Custom Panel Label Standard Size		\$11.67	1
DBA+ Digital Battery Analyzer w/ Case	497-0400-5	\$1,026.67	2

DC AMMETER 2.5", 0-100 ADC, Analog	023-1001-0	\$100.00	1
DC AMMETER 2.5", 0-50 ADC, Analog	023-0502-0	\$100.00	1
DC AMMETER 3.5", 0-100 ADC, Analog	023-1001-5	\$100.00	1
DC AMMETER 3.5", 0-50 ADC, Analog	023-0502-5	\$100.00	1
DC SHUNT 0-100 ADC		\$50.00	1
DC SHUNT 0-50 ADC		\$38.33	1
DC VOLTMETER 2.5", 16-32 VDC, Analog	023-1632-0	\$73.33	1
DC VOLTMETER 2.5", 8-16 VDC, Analog	023-9161-0	\$73.33	1
DC VOLTMETER 3.5", 16-32 VDC, Analog	023-1623-5	\$83.33	1
DC VOLTMETER 3.5", 8-16 VDC, Analog	023-9161-5	\$83.33	1
DCE Digital DC Energy Meter	023-4346-0	\$513.33	1
DCE-VAH110 Digital DC Energy Meter	023-4346-5	\$666.67	1
DCV Digital DC Volt Meter	023-4348-0	\$310.00	1
DIN-BATT 12-1.2 12V, 1.2 AH Battery	469-1212-0	\$245.00	4
DIN-BATT 12-12.0 12V, 12 AH Battery	469-1207-0	\$378.33	13
DIN-BATT 24 -1.2 24V, 1.2 AH Battery	469-2412-0	\$278.33	5
DIN-BATT 24-7.0 24V, 7 AH Battery	469-2407-0	\$393.33	15
DIN-BATT 48 1.2 48V, 1.2 AH	469-4812-0	\$556.67	
DIN-BATT 48 7.0 48V, 7.0 AH	469-4807-0	\$786.67	
DIN-UPS-12-10-UL DIN Rail DC UPS	468-1210-7	\$550.00	3
DIN-UPS-12-35 DIN Rail DC UPS	468-1235-0	\$838.33	5
DIN-UPS-12-35P DIN Rail DC UPS		\$921.67	5
DIN-UPS-24-10 DIN Rail DC UPS	468-2410-0	\$598.33	3
DIN-UPS-24-20 DIN Rail DC UPS	468-2420-0	\$838.33	5
DIN-UPS-24-20P DIN Rail DC UPS	468-2420-2	\$921.67	5
DIN-UPS-48-10 DIN Rail DC UPS	468-4810-0	\$838.33	5
DIN-UPS-48-10P DIN Rail DC UPS		\$921.67	5
DIN-UPS-48-5 DIN Rail DC UPS	468-4805-0	\$636.67	5
DIN-UPS Temp Probe 12-24-48V, 3'	468-5940-0	\$65.00	1
DIN-UPS Temp Probe 12-24-48V, 10'	468-5940-1	\$81.67	1
DIN-RM 19" Rack Mount Bracket w/ DIN Rail		\$245.00	2
DIR Digital Instrument Relay		\$76.67	1
DRM-220 DIN UPS Redundancy Module		\$178.33	2
DRS-24-48-7500 DC Converter Shelf		\$1,461.67	15
DRS-48-24-7500 DC Converter Shelf		\$1,461.67	15
DHS-24-48 DC Converter Module for DRS-24-48-7500		\$1,596.67	6
DHS-48-24 DC Converter Module for DRS-48-24-7500		\$1,596.67	6
DHS Converter Blank Panel		\$61.67	1

DST-8-RB Distribution Panel w/ Control	405-1008-0	\$1,088.33	12
DST-10 (UL) w/ Rear Cover Distribution Panel	405-4000-2	\$951.67	17
DST-20A (UL) w/ Rear Cover Distribution Panel	405-4000-1	\$1,311.67	17
DX-2 Thru-Dex	007-4002-0	\$48.33	1
DX-3 Thru-Dex	007-4003-0	\$53.33	1
DX-5 Thru-Dex	007-4005-0	\$140.00	1
Electros 12-50 Battery Charger	445-6000-0	Contact Factory	
Electros 12-75 Battery Charger		Contact Factory	
Electros 12-100 Battery Charger		Contact Factory	
Electros 24-50 Battery Charger		Contact Factory	
Electros 24-75 Battery Charger		Contact Factory	
Electros 24-100 Battery Charger	445-6120-0	Contact Factory	
ERC-12-15 Emergency Relay	491-0012-0	\$146.67	1
ERC-12-35 Emergency Relay	495-1466-0	\$216.67	2
ERC-24-35 Emergency Relay (Build to Order)	490-2435-0	\$275.00	1
ES-1 Elite DC Panel	020-1010-0	\$1,330.00	10
ES-3 Elite AC/DC Panel BTO	020-1030-0	\$1,435.00	9
ES-5 Elite AC/DC Panel BTO	020-1050-0	\$3,310.00	20
ES-6D Elite DC Panel	020-1061-0	\$706.67	6
ES-7A Elite AC Panel	020-1070-0	\$733.33	6
ES-7D Elite DC Panel	020-1071-0	\$700.00	6
ESA Electrical System Analyzer	497-0100-0	\$373.33	5
EX-1074 Electrical Enclosure	007-1074-0	\$158.33	1
EX-373 Electrical Enclosure	007-0370-0	\$91.67	1
EX-474 Electrical Enclosure	007-0474-0	\$105.00	1
FDP-1010 Fuse Distribution Panel	405-4810-0	\$888.33	12
FDP-2020 Fuse Distribution Panel	405-2482-0	\$1,130.00	12
GB-19 Bus Bar	405-5225-0	\$93.33	2
GI-30 Galvanic Isolator	395-3059-1	\$245.00	3
GI-50 Galvanic Isolator	395-3059-0	\$295.00	5
(UGF) GMT Fuse 1, 3, 5, 7.5, 10 or 15 amp		\$6.67	1
GS-2-100 Ground Strap	002-0100-2	\$393.33	9
GS-2-25 Ground Strap	002-0100-0	\$83.33	3
GS-2-50 Ground Strap	002-0100-1	\$195.00	5
GS-4-100 Ground Strap	002-1100-2	\$616.67	16
HOLE PLUG		\$0.42	1
INDICATOR LITE AC, AMBER , Bulk	023-0250-0	\$5.00	1
INDICATOR LITE AC, GREEN , Bulk	023-0476-0	\$5.00	1
INDICATOR LITE AC, RED , Bulk	023-4001-1	\$5.00	1
INDICATOR LITE DC, GREEN , Bulk	023-2800-0	\$5.00	1

INDICATOR LITE DC, RED, Bulk	023-0028-0	\$5.00	1
IPS Battery, 4 A-H	591-0412-0	\$95.00	3
IPS-12-40, Power System	445-4075-1	\$2,370.00	39
IPS-24-22, Power System	445-4076-1	\$2,370.00	39
IPS-48-11, Power System	445-4077-1	\$2,370.00	39
KIT-H High Vibe Kit	400-3570-0	\$70.00	1
KIT-L High Vibe Kit	400-1035-0	\$63.33	1
LS-I Label Set	020-0220-1	\$23.33	1
LS-II Label Set	020-0440-1	\$36.67	1
LS-III Label Set	020-0660-1	\$126.67	1
Custom Panel Label Standard Size		\$11.67	1
LVD-12-30 Low Voltage Disconnect	490-1230-0	\$236.67	2
LVD-12-75 Low Voltage Disconnect	490-3270-3	\$335.00	2
LVD-24-50 Low Voltage Disconnect	490-3270-4	\$358.33	2
LVD-48-30 Low Voltage Disconnect	490-3270-2	\$426.67	2
MDP-25.0 Mobile Data Power	425-5750-0	\$788.33	11
MIC CLIP, SPRING Skin-Pac	005-0003-1	\$8.33	1
MT-FD 6 Multi-Timer Fuse Distribution	390-5735-0	\$361.67	2
NP-12 Battery, 4.0 A-H	591-0412-0	\$95.00	3
NP-12 Nav-Pac	425-2988-0	\$583.33	7
NP-24 Nav-Pac	425-5297-0	\$631.67	14
NS-12-20 Battery, 4.0 A-H	591-0412-0	\$95.00	3
NS-12-20 Start-Guard	426-3222-0	\$240.00	6
PA-30/20 Deck Horn	144-0015-0	\$55.00	3
PA-40/30 Deck Horn	144-6030-0	\$80.00	4
PA-60/40 Deck Horn	144-6040-0	\$250.00	5
PA-8W Deck Horn	144-0666-0	\$23.33	2
Panel Labels Custom Standard Size		\$11.67	1
PBK Parallel Bus Kit for MT-FD 6		\$13.33	1
PC-10 Filter	380-2010-1	\$76.67	2
PC-25 Filter	380-1258-1	\$115.00	2
PE-12V-120W-18AH Power Enclosure	465-5964-0	\$4,250.00	89
PE-12V-120-18AH-UL2524 Power Enclosure		\$4,420.00	89
PE-12V-120W-55AH Power Enclosure		\$4,323.33	115
PE-12V-120-55AH-UL2524 Power Enclosure	465-6085-UL2524	\$4,455.00	115
PE-12V-120W-100AH Power Enclosure		\$4,663.33	151
PE-12V-120-100AH-UL2524 Power Enclosure		\$4,620.00	151
PE-24V-240W-18AH Power Enclosure		\$4,301.67	103
PE-24V-240-18AH-UL2524 Power Enclosure		\$4,463.33	103
PE-24V-240W-55AH Power Enclosure		\$4,368.33	154
PE-24V-240-55AH-UL2524 Power Enclosure		\$4,675.00	154

PE-24V-240W-100AH Power Enclosure	465-5966-0	\$4,708.33	226
PE-24V-240-100AH-UL2524 Power Enclosure		\$4,888.33	226
PE-48V-265W-18AH Power Enclosure		Contact Factory	
PE-48V-265W-36AH Power Enclosure		Contact Factory	
PE-48V-480W-18AH Power Enclosure		\$4,048.33	130
PE-48V-480-18AH-UL2524 Power Enclosure	465-5990-UL2524	\$4,496.67	130
PE-48V-480W-55AH Power Enclosure	465-5968-0	\$4,630.00	230
PE-48V-480-55AH-UL2524 Power Enclosure	465-5968-UL2524	\$4,966.67	230
PE-48V-480-82AH Power Enclosure		Contact Factory	
PE-48V-480-82AH-UL2524 Power Enclosure		Contact Factory	
PE-48V-480W-100AH Power Enclosure	465-5980-0	\$6,598.33	411
PE-48V-480W-100AH-UL2524 Power Enclosure		\$7,241.67	
PE-48V-480W-160AH Power Enclosure	465-6081-0	Contact Factory	
PE-48V-480W-185AH Power Enclosure		Contact Factory	
PE-48V-600W-320AH Power Enclosure	465-6052-0	Contact Factory	
PE-48V-600W-370AH Power Enclosure	465-6047-0	Contact Factory	
PE-48V-700W-280AH Power Enclosure		Contact Factory	
PE-48V-700W-370AH Power Enclosure	465-6053-0	Contact Factory	
PE-48V-700W-400AH Power Enclosure		Contact Factory	
PE-48V-1200W-600AH Power Enclosure	465-6058-0	Contact Factory	
PE-110V-100W-100AH-24V Power Enclosure	465-5970-0	\$6,600.00	231
PE-110V-100W-100AH-24V-UL2524 Power Enclosure		Contact Factory	
PE-110V-165-100AH-24V-UL2524 Power Enclosure	465-5970-UL2524	\$5,866.67	231
PE-120V-600W-185AH Power Enclosure		Contact Factory	
PE-120V-600W-370AH Power Enclosure		Contact Factory	
PFM-500 Power Function Manager	445-5670-0	\$2,136.67	31
Phone-Com Handset Replacement (Specify Black/White)		\$33.33	1
PI-10 Phone-Com - Bright White or Black		\$110.00	2
PI-2 Phone-Com - Bright White or Black		\$95.00	2
PI-2 SET Phone-Com - Bright White or Black		\$291.67	4
PM-12-40 Power Module	445-3863-0	\$1,465.00	14
PM-12-80 Power Module	445-5620-0	\$2,143.33	23

PM-24-20 Power Module	445-3865-0	\$1,426.67	19
PM-24-40 Power Module	445-5621-0	\$2,143.33	23
PM-48-10 Power Module	445-3867-0	\$1,426.67	25
PM-48-20 Power Module	445-5622-0	\$2,143.33	23
PM-48-50 Power Module	445-4550-0	\$3,111.67	21
POWER-PAC 14AH Power Supply	360-2014-0	\$845.00	28
POWER-PAC 7AH Power Supply	360-2007-0	\$708.33	22
POWER-PAC Battery, 7 A-H	591-0712-0	\$115.00	6
PT-7 Battery Charger	445-4290-0	\$290.00	4
PT-14W Battery Charger	445-4868-0	\$573.33	9
PT-24-13W Battery Charger	445-4869-0	\$703.33	10
PT-24-20U Battery Charger	445-5210-1	\$1,131.67	16
PT-24-45U Battery Charger	445-4800-0	\$1,851.67	17
PT-24-60W Battery Charger	445-4741-0	\$2,430.00	30
PT-24-8W Battery Charger	445-4859-0	\$598.33	10
PT-24-95U Battery Charger	445-4906-0	\$2,855.00	33
PT-24-95 Special w/ Current Limit Set @ 70 Amps		\$2,821.67	33
PT-25W Battery Charger	445-4867-0	\$703.33	10
PT-32-25W Battery Charger	445-4830-0	\$2,240.00	17
PT-40U Battery Charger	445-5210-0	\$1,135.00	16
PT-80 Battery Charger	445-4785-0	\$1,848.33	19
PT Power Module 12V, 80 Amps for PT-80	447-1280-0	\$778.33	
PT Power Module 24V, 1500W for PT-24-45/95	447-2445-0	\$778.33	9
PTK Parallel Terminal Kit for MT-FD 6	390-5725-0	\$11.67	1
PTM-24-22 Charge Module Only (use with PTMS)		\$1,231.67	8
PTMS-24-67 Charger System		\$5,001.67	47
PT-MCU Monitor Control Unit w/ AC Fail Contacts	445-4454-0	\$653.33	5
PX-1 Junction Box	07-3001-0	\$33.33	1
PX-2 Junction Box	007-3002-0	\$40.00	1
PX-3 Junction Box	007-3003-0	\$56.67	1
QCK-3 DC Quick Connect Kit	405-3987-1	\$213.33	3
QCK-3A DC Quick Connect	405-3988-1	\$358.33	4
QCK-6 DC Quick Connect Kit	405-3987-0	\$358.33	4
QCK-6A DC Quick Connect Kit	405-3988-0	\$641.67	5
RA-1 Thru-Dex	007-2010-0	\$38.33	1
RA-2 Thru-Dex	007-2020-0	\$50.00	1
RA-3 Thru-Dex	007-2030-0	\$55.00	1
RC-DST , Rear Cover	405-4240-0	\$95.00	2
Relay Rack 19" x 7'		Contact Factory	32

Relay Rack** 23" x 7'		Contact Factory	44
RM-648HE Sentinel Rectifier		\$660.00	2
RM-SPM 19/23" Rackmount Panel Bracket	475-5091-0	\$110.00	2
RM-SPS SPS 19" Rackmount Bracket	466-5360-0	\$110.00	1
RP PT Charger Remote Panel	020-3764-0	\$168.33	2
RRC-3-19 Rear Rack Cover	405-4215-0	\$185.00	4
RRC-3-23 Rear Rack Cover	405-4215-1	\$215.00	5
RRC-7-19 Rear Rack Cover	405-4066-0	\$215.00	5
RRC-7-23 Rear Rack Cover	405-4066-1	\$233.33	6
RS 19x15 Rack Shelf Vented, Black or Gray		\$120.00	10
RS 19x16 Rack Shelf Adj. Black or Gray		\$151.67	10
RS 19x20 Rack Shelf Adj., Black or Gray		\$151.67	11
S.S. SWITCH 15 AC Selector Switch	023-2202-0	\$375.00	3
S.S. SWITCH 3.0 AC Selector Switch	023-2203-0	\$126.67	1
S.S. SWITCH 7.5 AC Selector Switch	023-2201-0	\$183.33	1
S.S. SWITCH 7.5 INV AC Selector Switch	023-2206-0	\$238.33	1
Scout-S Scout Rectifier Shelf, 12 Volt	438-0001-0	\$1,331.67	12
Scout-R Scout Rectifier, 12 Volt, 100 amp	438-1201-0	\$1,991.67	6
SCREEN-25 Copper Mesh	003-0010-2	\$588.33	14
SCREWS Flat Head		\$0.25	1
SCREWS Round Head		\$0.25	1
SHUNT-500A (for DCE, DCA)	575-05050-0	\$76.67	6
SHUNT-900A (for DCE, DCA)		\$116.67	3
SNMP Card RM Inverter	430-0999-0	\$841.67	1
SPM-200 Remote Site Monitor	475-5045-0	\$991.67	2
SPS 12-20 Site Power System	466-1220-0	\$1,233.33	6
SPS 24-10 Site Power System	466-2410-0	\$1,233.33	6
SPS 48-6 Site Power System	466-4806-0	\$1,233.33	6
SRS BP Sentinel Blank Plate		\$35.00	1
SRS-48 Sentinel Shelf	433-1800-0	\$2,185.00	2
TCS-12/24-25 PT/PM Temp. Sensor - 25' Cable	445-3768-0	\$108.33	1
TCS-12/24-40 PT/PM Temp. Sensor - 40' Cable	445-3768-2	\$141.67	1
TCS-48 PM Temp. Sensor	445-3769-1	\$111.67	1
TMR-30A Power-Timer	390-0030-1	\$113.33	1
TP-33 Temp. Probe, PT's 45, 60, 95A - 33' Cable	445-4129-0	\$130.00	1



TQ-DSP 12/24 Torque Series LCD Remote 12 & 24V	430-2438-5	\$478.33	1
TQ-RMK Remote Extension Kit	430-2440-0	\$115.00	1
TS-2X4 Terminal Strip- Skin-Pac	064-3589-1	\$31.67	1
TS-2X8 Term Strip, Skin-Pac	064-3589-2	\$48.33	1
UFP-5 Unity GMT Fuse Panel	445-4255-0	\$283.33	2
UGF GMT Fuse: 1, 3, 5, 7.5, 10,15 amp		\$6.67	1
ULM-100 Unity Low Voltage Monitor	405-5595-0	\$1,035.00	10
UMB-PM Universal Mounting Bracket	405-3920-0	\$71.67	3
UR24-6 Unity Rectifier	445-4254-1	\$363.33	3
UR48-3 Unity Rectifier	445-4254-0	\$363.33	3
URS Unity Rectifier Shelf	445-4253-0	\$490.00	10
USAR24-6 Unity Stand-Alone Rectifier Module	445-4354-1	\$490.00	5
USAR48-3 Unity Stand-Alone Rectifier Module	445-4354-0	\$455.00	5
VAAHF Generator Meter	023-4500-0	\$1,098.33	2
VOTT Engine Meter	023-4400-0	\$898.33	2
WBS Waterproof Breakers, 50-150A, clamshell		\$40.00	3
WP-35 Waterproof Battery Charger	440-4910-0	\$1,281.67	33
WPF-1 Waterproof Fitting	005-5001-0	\$8.33	1
WPF-2 Waterproof Fitting	005-5002-0	\$10.00	1
WPF-3 Waterproof Fitting	005-5003-0	\$13.33	1



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