

MERLIN-HANDHELD RADIO POWER ADAPTER

- Keep your radio and your device powered
- Efficient charging capability



ENABLING COMMUNICATIONS WHERE YOU NEED IT, WHEN YOU NEED IT. NO EXCUSES.

The Merlin-HandHeld Radio Power Adapter™ is an Uninterruptible DC Power slice for handheld radios and other compatible equipment. The Merlin-HandHeld interfaces with both the radio and battery and receives input from a variety of DC and AC power sources with appropriate accessories.

Its primary functions are to; power the attached radio, charge the attached battery and supply auxiliary output power. What sets the Merlin-HandHeld RPA apart is its capability to export power to run application-specific equipment such as end user devices and other peripheral gear, all while charging the battery. The Merlin-HandHeld RPA serves as an Uninterrupted Power Source (UPS) for the radio, and can also operate in a battery eliminator configuration.

The Merlin-HandHeld RPA boasts a hot-swap feature which allows battery change-out and maintenance without load interruption. The unit configures automatically to inputs and outputs and requires no controls. LED indicators display the status of input power, state of charge, battery charging, and battery health. Maximum Peak Power Tracking algorithms efficiently convert power from solar panels to support the load and/or charge batteries for power storage.

The Merlin-HandHeld RPA is compact and rugged, allowing the radio system and connected devices to be used in all conditions and environments. Compared to other handheld device battery eliminators or power adapters, the Merlin-HandHeld RPA offers more power handling capability and the unique ability to export power to peripheral devices.

PHYSICAL AND ELECTRICAL PROPERTIES

PARAMETER	CHARACTERISTIC
Weight	0.35 lbs (161 g)
Size	1.44" H x 2.70" W x 1.52" D
Input Connector	GK0WAM-P09UM00L (ODU) (A KEY)
Output Connector	GK0WBM-P09UM00L (ODU) (B KEY)
Applicable Standards	MIL-STD-810G, MIL-STD-461F, MIL-STD-1275D
Operating Temp Range	-40° to +131°F (-40° to +55°C)
Storage Temp Range	-59° to +160°F (-50° to +71°C)
Input Voltage	10–40 VDC @ 10 ADC (max)
Input Power	110 W
Radio Voltage	12.6 VDC nominal @ 72 W max
Aux. Output Power	5 V (10 W max) or 12 V (15 W max)
Efficiency	94%
Li Ion Battery Charge Time	3 hours typical

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