

## RF-7914-PS001

### High-Performance Manpack Battery Eliminator

The RF-7914-PS001 Battery Eliminator (BE) supports single and multi-channel manpacks including the AN/PRC-167. Forces now have a flexible source to maintain continuous power for critical mission communications.



The RF-7914-PS001 can be used as an alternative to either the 20-Watt Vehicular Adapter Assembly or the radio battery box and MIL-STD manpack batteries.

The Battery Eliminator contains high-efficiency power supplies, a rechargeable backup battery pack with built-in charger, and control circuits allowing users to operate the radio from an AC power source of 85-265/47-440 Hz, or a DC power source of 10-34.5 VDC. The Battery Eliminator supplies 26.5 VDC nominal uninterruptible power to the radio. The internal rechargeable backup battery permits short-term transceiver operation when external power is interrupted. The battery is recharged automatically when external power is applied.



### FLEXIBLE POWER SOURCE FOR MISSIONS ON THE MOVE

#### KEY BENEFITS

- > Replaces the need for heavy manpack batteries
- > Uninterruptable radio power
- > Rechargeable backup battery

GENERAL	
Compatibility	Designed specifically for the AN/PRC-167 and will support the AN/PRC-158, AN/PRC-117G(V)1, RF-7800M-MP, RF-7800H-MP and AN/PRC-160 (V)
Input Voltage	85-265 VAC, 47-440 Hz single phase 10-34.5 VDC
DC Input Protection	MIL-STD-1275E
Output Voltage	26.5 VDC nominal / 4.25 A continuous, 8 A for 100 ms
Output Noise and Ripple	Maximum of 100 mVp-p
Output Protection	Continuous short circuit, over-voltage, over-temperature protection
EMI Requirements	MIL-STD-461G on all input and output circuits
Aux Output	26.5 VDC +/- 5% with a maximum continuous output current of 1 Amp
Battery Backup	2.5 Ahr rechargeable battery backup operation of the receiver / transmitter for a minimum of 5 minutes at 100% duty factor (100% TX @ 7.5 Amps), 15 minutes at nominal duty factor and 20 minutes at full receive mode (100% RX @ 1.7 Amps) when operating across the full operational temperature range of the battery.

PHYSICAL	
Dimensions	3.35 H x 6.84 W x 5.48 D in (8.51 H x 17.37 W x 13.92 D cm)
Weight	4.9 lbs (2.2 kg) with battery pack
Color/Finish	CARC 383 (Green)

ENVIRONMENTAL	
Operating Temperature	-40°F to 160°F (-40°C to 71°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Airborne Moisture	MIL-STD-810G
Altitude	MIL-STD-810G
Fungus	MIL-STD-810G
Icing/Freezing Rain	MIL-STD-810G
Salt Fog	MIL-STD-810G
Sand/Dust	MIL-STD-810G
Shock	MIL-STD-810G
Solar Radiation	MIL-STD-810G
Vibration	MIL-STD-810G
Immersion	Water submersible to approximately 3 feet (1 meter) for 2 hours in salt water

MECHANICAL	
LED Indicators	A series of three (3) green, night vision compatible, LEDs shall be used to indicate the BE is powering the radio through AC, DC, or give battery status when AC or DC input is present.

STANDARD KIT INCLUDES	
12237-5520-A006	RF-7914 DC power cable assembly
12237-5530-A006	RF-7914 AC power cable assembly
10515-6985	Operator Card, RF-7914 Battery Eliminator

OPTIONAL ACCESSORIES*	
RF-5980-SA201	Speaker, Two Channel, CARC Green
12193-0358-A009	Cable Assy, Speaker Power
12193-0480-A009	Cable Assy, 2 Channel Speaker Audio

\* For use with the AN/PRC-167 Multichannel Manpack

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