

**RF-5850-PS001****POWER SUPPLY /  
BATTERY ELIMINATOR**

The RF-5850-PS001 Power Supply/Battery Eliminator may be used to power any of the FALCON® II wide body manpack transceivers: RF-5800H-MP, RF-5800M-MP, RF-5800U-MP, AN/PRC-150(C) and AN/PRC-117F(C).

The unit mounts to the radio in place of the battery box and operates on 85 to 270 VAC, 47 to 440Hz, or 9 to 36 VDC. An internal battery permits operation of the radio for a short period of time without external power. The battery is charged when external power is reapplied.

The RF-5850-PS001 has three indicator lights to provide operating status. An auxiliary power connector is provided to power an external DC device such as an amplified speaker. The unit is supplied with an AC power cable with a US NEMA 5-15P plug and a DC power cable with pigtail leads.



**General**

**Input Voltage** 85-270 VAC, 47-440 Hz single phase; 9-36 VDC

**Output Voltage** 26.5 VDC, 5.25 amp continuous, 6 amp peak

**Output Noise and Ripple** 50 mVPP typical

**Output Protection** Continuous short circuit, over-voltage and over-temperature protection

**Efficiency** 90-94% for DC input, 85% typical for AC input at full load

**Backup Power** Internal rechargeable 24V / 1.9 AH battery. Automatic switch over during AC or DC power failure.

**Auxiliary Output** 26 VDC, 1 amp nominal for powering external accessories

**Mechanical / Environmental**

**Temperature** Operating: -40 to +70 ° C  
Storage: -40 to 85 ° C

**Size** 6.00H x 9.125W x 2.86D in

**Weight** 3.75 lbs

**EMI / RFI Protection** Designed to meet MIL-STD-461 / MIL-STD-1275

**Environmental Protection** Water submersible to 10 feet and sand/dust proof (with connector covers)