

**RF-5850-PS001**  
**RF-5850-PS002**  
**POWER SUPPLY /**  
**BATTERY ELIMINATOR**

The RF-5850-PS Power Supply/Battery Eliminator family may be used to power any of the FALCON® II manpack transceivers:

The RF-5850-PS001 model mates with the wider body radios: the RF-5800H-MP, RF-5800M-MP, RF-5800U-MP, AN/PRC-150(C) and AN/PRC-117F(C).

The RF-5850-PS002 model mates with the narrow body radios: RF-5800V-MP and RF-5800R-RC Remote Control Unit.

The RF-5850-PS mounts to the radio in place of the battery box and operates on 85 to 270 VAC, or 9 to 36 VDC. An internal battery (PS001 only) permits radio operation for short periods of time (less than one hour) without external power. The internal battery is charged when external power is reapplied.

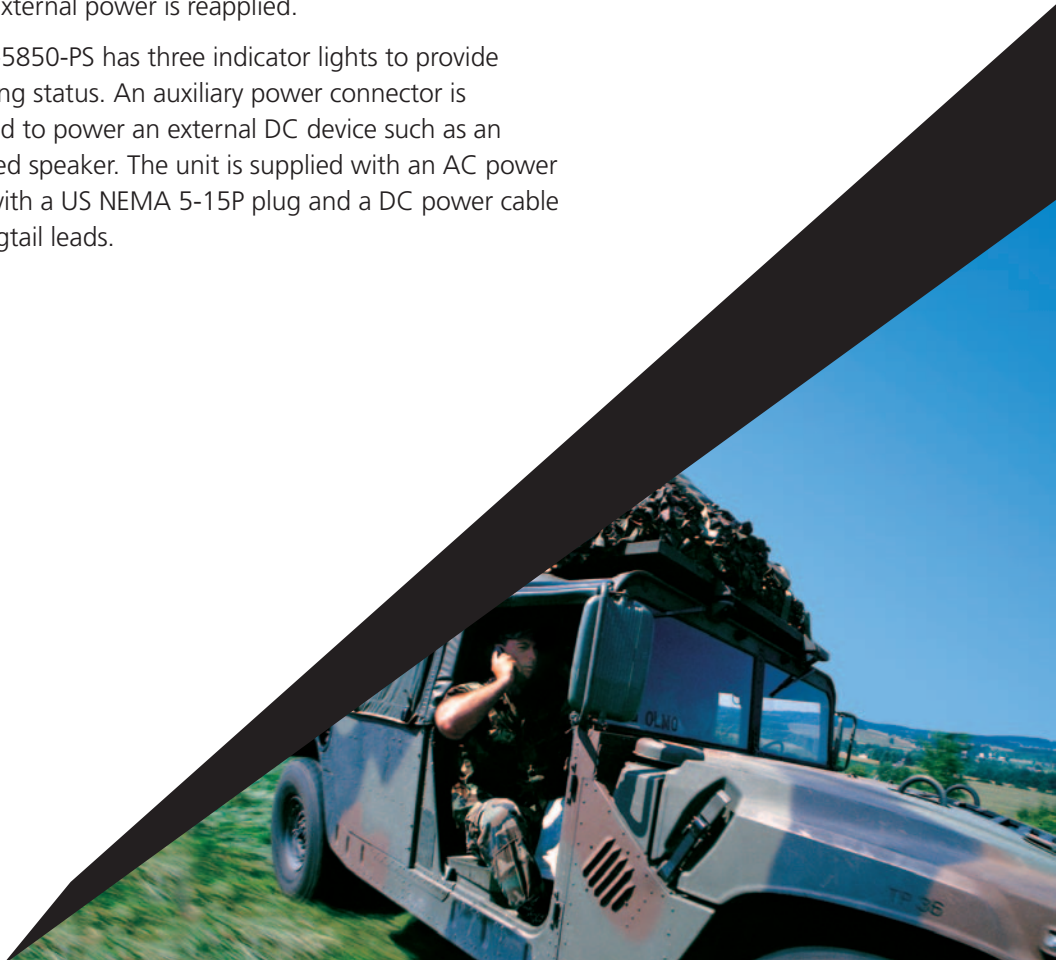
The RF-5850-PS has three indicator lights to provide operating status. An auxiliary power connector is provided to power an external DC device such as an amplified speaker. The unit is supplied with an AC power cable with a US NEMA 5-15P plug and a DC power cable with pigtail leads.



**RF-5850-PS001**



**RF-5850-PS002**



**General**

RF-5850-PS001 is used with the RF-5800H-MP, RF-5800M-MP, RF-5800U-MP, AN/PRC-117F, and AN/PRC-150(C) radios  
RF-5850-PS002 is used with the RF-5800V-MP radio or the RF-5800R-RC Remote Control Unit

<b>Input Voltage</b>	85-270 VAC, 47-440 Hz single phase; 9-36 VDC
<b>Input Protection</b>	MIL-STD-1275 (optional cable required for overvoltage and reverse polarity protection)
<b>Output Voltage</b>	26.5 VDC PS001 5.25 a continuous, 6.0 a peak PS002 3.0 a continuous, 3.5 a peak
<b>Output Noise and Ripple</b>	50 mVPP typical
<b>Output Protection</b>	Continuous short circuit, over-voltage and over-temperature protection
<b>Efficiency</b>	90-94% for DC input, 85% typical for AC input at full load
<b>Backup Power</b>	Automatic Switchover due to loss of power: AC to DC Input DC to internal rechargeable 24V / 1.9 AH battery (PS001 only)
<b>Auxiliary Output</b>	26 VDC, 1 amp nominal for powering external accessories

**Mechanical / Environmental**

<b>Temperature</b>	Operating: -40 to +70 ° C Storage: -40 to 85 ° C
<b>Size</b>	PS001: 6.00H x 9.53W x 2.98D PS002: 5.35H x 6.36W x 2.96D
<b>Weight</b>	PS001: 3.75 lbs w/o battery PS002: 3.12 lbs
<b>Environmental Protection</b>	Splash proof Sand/dust proof (with connector covers)

**Optional Accessories**

<b>RF-5870-VM001</b>	Shock Mount for mounting RF-5850-PS001 with attached radio
<b>RF-5871-VM001</b>	Shock Mount for mounting RF-5850-PS002 with attached radio
<b>10513-0510-01</b>	10ft DC input cable for RF-5850-PS001 and PS002 with slave HMMWV connector
<b>10513-0511-01</b>	6ft DC input cable for RF-5850-PS001 and PS002 with alligator clips. Contains 100 V overvoltage and reverse polarity protection

Specifications are subject to change without notice.



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RF Communications Division | 1680 University Avenue | Rochester, NY USA 14610  
[www.harris.com](http://www.harris.com) 1-585-244-5830