

**RF-5832H-PA001****125 WATT HF****POWER AMPLIFIER***guarantees continuous**high performance and**reliability in the most**severe environments*

The Harris 125-Watt Power Amplifiers increase the output of the FALCON® II RF-5800H-MP and the AN/PRC-150(C) transceivers to 125 watts PEP/Average.

The RF-5832H Power Amplifier operates in applications where medium-power, medium-range communications are required. Typical applications include mobile, boat, or base station installations for general purpose HF-SSB voice and data communications.

Continuous coverage is provided over the 1.6 to 30 MHz frequency range. The power amplifier section is a broadband design requiring no tuning or adjustment.

When used with the RF-5382H or the RF-382A Series Antenna Coupler, the output of the power amplifier is automatically matched to the specified antenna and requires no special operator procedures.

Built-in self-test features permit operators or maintenance personnel to fully check the transceiver and associated power amplifier performance down to the module level. Fault conditions are indicated on the transceiver's front-panel display.

Power output is adjustable via the transceiver front panel or remote control.



## Specifications for the RF-5832H-PA001

### General

<b>Frequency Range</b>	1.600000 to 29.99999 MHz
<b>Modes of Operations</b>	J3E (single sideband, upper or lower, suppressed carrier telephony) H3E (compatible AM single sideband plus full carrier telephony) J2A MCW (single sideband suppressed carrier keyed tone)
<b>RF Input/Output Impedance</b>	50 ohm nominal, unbalanced
<b>Power Input</b>	+26.4 VDC nominal, @15 Amps., maximum
<b>Temperature Range</b>	-40°C to +70°C
<b>Shock/Vibration</b>	MIL-STD-810E
<b>Leakage</b>	MIL-STD-810E (1 meter depth)
<b>Humidity</b>	MIL-STD-810E (0 to 95%)
<b>Size</b>	7.5W x 10.0D x 5.5H inches (19.0W x 25.5D x 14.0H cm)
<b>Weight</b>	12.8 lbs (5.8 kg)

### Power Amplifier

<b>Power Output</b>	125 watts PEP/average into 50 ohm (Variable level control from transceiver to -12dB maximum)
<b>RF Drive Requirements</b>	Nominal 100 mW (+20 dBm)
<b>Intermodulation Distortion</b>	-30 dB from either tone of a two-tone envelope at 125 watts PEP
<b>Harmonic Output</b>	-40 dB

### Accessories

<b>RF-5382H</b>	150-Watt Fast-Tune Antenna Coupler
<b>RF-382A</b>	400-Watt Fast-Tune Antenna Coupler
<b>RF-5071VSM-03</b>	Vehicular Shock Mount
<b>RF-5051PS</b>	Power Supply
<b>SB-V</b>	Whip Antenna Series
<b>RF-1936</b>	NVIS Antenna Series
<b>RF-1912</b>	Dipole Antenna Series
<b>RF-5832H-SK001</b>	Site Spares Kit
<b>10497-0340-01</b>	Low Pass Filter Kit
<b>10535-0720</b>	RF-5832H to RF-5800H/AN/PRC-150(C) Control Cable
<b>10181-9824</b>	RF-5832H to RF-5800H/AN/PRC-150(C) RF Coax Cable
<b>10181-9826</b>	RF-5832H to Vehicle DC Power Cable
<b>10181-9833</b>	RF-5832H to RF-5051PS for DC Power Cable

### Systems

<b>RF-5800H-V004</b>	125-Watt Vehicular Adapter
<b>RF-5800H-B004</b>	125-Watt Base Station Adapter
<b>RF-5800H-TM004</b>	125-Watt Mini-Transit Case Adapter



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Specifications are subject to change without notice.