

RF-5832H-PA101**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 Couplers, 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.



General

Frequency Range	1.600000 to 29.99999 MHz
Modes of Operations	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)
RF Input/Output Impedance	50 ohm nominal, unbalanced
Power Input	+26.4 VDC nominal, @15 Amps., maximum
Temperature Range	-40°C to +70°C
Shock/Vibration	MIL-STD-810E
Leakage	MIL-STD-810E (1 meter depth)
Humidity	MIL-STD-810E (0 to 95%)
Size	7.5W x 10.0D x 5.5H inches (19.0W x 25.5D x 14.0H cm)
Weight	13.0 lbs (5.9 kg)
Color	CARC Green 383

Power Amplifier

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

Accessories

RF-5382H	150-Watt Fast-Tune Antenna Coupler
RF-5071VSM-03	Vehicular Shock Mount
RF-5051PS	Power Supply
SB-V	Whip Antenna Series
RF-1936	NVIS Antenna Series
RF-1912	Dipole Antenna Series
RF-5832H-SK101	Site Spares Kit
10497-0340-01	Low Pass Filter Kit
10535-0720	RF-5832H to RF-5800H/AN/PRC-150(C) Control Cable
10181-9824	RF-5832H to RF-5800H/AN/PRC-150(C) RF Coax Cable
10181-9826	RF-5832H to Vehicle DC Power Cable
10181-9833	RF-5832H to RF-5051PS for DC Power Cable

Systems

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



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Specifications are subject to change without notice.