

RF-5800V-V500**FALCON II® VHF
POWER AMPLIFIER**

*Mobile,
multimission,
one radio*

The RF-5800V-V500 is a high-performance VHF power amplifier for use in vehicle or base station radio systems. The power amplifier complements the RF-5800V-HH VHF handheld transceiver by supplying additional RF power for increased range and link reliability.

The RF-5800V-V500 covers the 30 to 90 MHz frequency band and can supply a full 50 watts of forward power under demanding VSWR conditions. The unit provides excellent collocation performance in both fixed frequency and frequency-hopping modes.

Other features provided by the RF-5800V-V500 include: integrated handheld battery charger (battery remains attached to the radio) with simultaneous operation and charging, hot "jerk-and-run" (the handheld can remain powered on while being removed from vehicle system), VIC-1 and VIC-3 interface, and heat sinking for an extended-use duty cycle.

The RF-5800V-V500 multiband power amplifier supports all modes and features of the FALCON II VHF radios, including automatic position reporting using an internal or external GPS receiver, integration with computer-based situational awareness systems, tactical messaging, and image transmission applications.



Specifications for the RF-5800V-V500

General

Frequency Range	30-90 MHz
Input Power	20-32 VDC, MIL-STD-1275 compliant
Dimensions	27.2 W x 19.3 H x 31.5 D cm
Weight	11.8 kg (without shock tray) 18.1 kg (with shock tray)
RF Output Impedence	50 ohms, unbalanced
Collocation	9% frequency and 1.5M antenna separation
Finish/Color	CARC/Green

Transmit

Output Power	50 W, 30-90 MHz 10 W, 20 W, 50 W (user selectable)
Harmonic Suppression	> 47 dBc typical
Spurious Suppression	> 50 dBc typical

Receive

FM Sensitivity	-112 dBm @ 12 dB SINAD
IF Rejection	> 60 dB

Environmental

Operating Temperature	-30° to +60° C
Humidity	90% per MIL-STD-810
Shock/Vibration	Ground/Mobile per MIL-STD-810
Sand/Dust	MIL-STD-810

Compatibility

VHF Handheld Radio	RF-5800V-HH004 RF-5800V-HH104 (with GPS)
Intercom	AN/VIC-1 (V) AN/VIC-3 (V)
Speaker	Power and audio connectors available

Accessories

Shock mount interface assembly	Included
AC/DC Power Supply	For vehicular and base station applications
Headset	Various
Tactical Accessory Bag	Holds radio and entire complement of equipment
System Installation and Maintenance Manual	Included
Adapter Block	Included
3.5 km Fieldwire Remote Control	Compatible
Ancillary Kit	Included
Data Cables	Variety of lengths
Fan Kit	11146-2027-01

Configurations

Vehicle Systems	RF-5800V-VS500 RF-5800V-VS501 (with GPS)
Base Station Systems	RF-5800V-B500 RF-5800V-B501 (with GPS)