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## RF-300M-V150

### 50 W Vehicular Amplifier Adapter with AN/PRC-117G(V)1(C)

GENERAL	
Frequency Range	30 MHz - 2 GHz
Output Power	VHF Low (30-90 MHz): 50 W PEP VHF High/UHF (90-450 MHz): 50 W PEP UHF (450-512 MHz): Greater than 20 W PEP Wideband (225-450 MHz): 50 W PEP and Average Wideband (450 MHz-2 GHz): 20 W PEP
Power Input	18 VDC - 34 VDC
Channel Bandwidth	5 kHz - 5 MHz

INTERFACES	
Data Ethernet	RS-232, EIA-422, PPP
Remote Control	USB, Ethernet, RS-232
Audio	VIC-1, VIC-3, LS-671 compatible
Accessory Power	28 VDC @ 0.2A, 5.6 W
Antenna Ports	VHF Low: 50 Ohm BNC VHF High/UHF: 50 Ohm BNC UHF SATCOM: 50 Ohm BNC Wideband: 50 Ohm N-Type

PHYSICAL (INCLUDING SHOCK TRAY)	
Dimensions	9.25 H x 14.5 W x 10.5 D in (23.5 H x 37.0 W x 27.0 D cm)
Weight	37 lbs (16.8 kg) with radio
Color	Carc Green 383

ENVIRONMENTAL	
Shock/Vibe	MIL-STD-810F, ground mobile
Sand/Dust	MIL-STD-810F
Immersion	1 meter
Temperature	-40°F to +140°F (-40°C to +70°C)
Altitude	Operational to 15,000 ft

ACCESSORIES	
12006-9001-01	SATCOM Antenna
RF-292-01	Antenna Mount
RF-3071-AT230	GPS Antenna, L1 and L2 bands
RF-3183-AT013	30-512 MHz Vehicular Antenna
RF-3184-AT320	225-450 MHz Vehicular Antenna (Wideband)



The RF-300M-V150 Vehicular Amplifier Adapter (VAA) includes the Falcon III® AN/PRC-117G(V)1(C) manpack radio. Designed for long-range applications and enhanced communications reliability, the RF-300M-V150 provides 50 watts from 30 MHz to 450 MHz and 20 watts from 450 MHz to 2 GHz, supporting both narrowband and wideband waveforms up to the 5 MHz bandwidth. The low-profile, high-efficiency VAA can be deployed in multiple configurations, including as a single unit alongside a single-channel AN/VRC-110, or in a dual-unit configuration mounted in the Universal SINCGARS Interface Module. The RF-300M-V150 VAA features separate VHF, UHF, SATCOM and wideband antenna ports with automatic switching, providing true multi-mission capabilities. Operators can quickly access SATCOM, wideband networking, ground-to-ground, or ground-to-air nets with a simple preset change.

## MODELS

Model Number	System Configuration	Mounting System
<b>RF-300M-V150</b>	Single VAA system including one AN/PRC-117G(V)1(C)	Vehicular Interface Mount (VIM)
<b>RF-300M-V250</b>	Dual VAA system including two AN/PRC-117G(V)1(C)	Universal SINCGARS Interface Module (USIM) and MT-6352 shock mount
<b>RF-300M-V255</b>	Dual VAA system including one AN/PRC-117G(V)1(C) and one AN/PRC-152	Universal SINCGARS Interface Module (USIM) and MT-6352 shock mount

RF-300M-V150 50 W Vehicular Amplifier Adapter  
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