

A-320V1-H

Multiband Amplifier, Dismounted, 20 Watt, 350-450 MHz

RF Amplifiers



Features

- Combat proven
- Full-rated power across the 350 - 450 MHz range
- Radio manufacturer independent
- MIL-STD 810F and 461E certified
- Sealed and weather-resistant
- Remote power ON capability
- Three year warranty

Overview

We designed this amp specifically to meet the needs of the warfighter. At 680 grams, the A-320V1-H amplifier is the smallest and lightest on the market. Combat proven, it is unlike anything presently available in terms of 20-watt power, performance and is backed by Ultralife's quality assurance and 36-month warranty.

Why pay for part-time power? When you power up this amp, be confident that you will get reliable 20-watt ALC controlled amplification across the 350 - 450 MHz frequency range.

As a lightweight portable solution, the A-320V1-H is ideal for the soldier on the move. It can also integrate easily as a value-added amplifier for radio manufacturers' and system integrators' packaged offerings. It is compatible with most field radios used by the military, government agencies and homeland security. This includes, but is by no means limited to, the Harris RF-7800S Secure Personal Radio and most radios operating in the 350 - 450 MHz range.

Operational Readiness

You can be confident that your communications system is ready when you are. The A-320V1-H monitors antenna performance, BIT and battery status. With ALC controlled amplification across the entire 350 - 450 MHz frequency band, our amp provides consistent and reliable performance.

Single Battery Operation

No longer does single battery operation mean less power. Unlike other amps that require two batteries for 20-watt operation, the A-320V1-H averages full-rated power for up to 15 hours on a single 5590 battery. Use a single 5390 battery and you can extend the operational life to 24 hours. Times are based on a 15% transmit duty cycle.

Technical Specifications

Size	Height	38.10 mm
	Width	95.25 mm
	Depth	139.70 mm
Weight	680 grams	
Frequency Range	350 - 450 MHz	
Input/Output Impedance	50 Ω	
RF Input	2 - 5 W	
RF Output - FM	18 - 30 W	
RX Path Insertion Loss	< 1.5 dB	
RX Path VSWR	< 2:1	
Bypass Path Insertion Loss	< 1 dB	
Power	18 - 34 V DC	
Power at Transmit	~ 65 W	
Power at Receive	< 3.0 W	
Frequency Hopping	Capable	
RF Connector RAD/ANT	TNC/BNC	
Operating Temperature	- 30°C to + 60°C	
Weather Resistant	MIL-STD-810F submersible 1 m for 30 minutes	
EMI	MIL-STD-461E	
Finish	Green, anodised	



Indicators

Power ON / OFF	•
Power Set	7, 10, 15, 20 W
TX Active	•
RX Active	•
VSWR Fault	•
Over Current	•
System 1	•
System 2	•
Battery	•
Over Temperature	•

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All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



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