

A-320V3A

20-Watt 30-512 MHz Amplifier

Technical Datasheet

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Overview

We designed this amp specifically to meet the needs of the warfighter. Weighing just 24 ounces, the A-320V3A delivers heavyweight performance and the reliability needed for combat operations. The A-320V3A features self-diagnostics with dimmable system indicators to monitor power and performance status. This solution is radio-agnostic and compatible with most 30-512 MHz military radios. The A-320V3A is SRW, EPIXS, HAVEQUICK & SINCGARS compatible, and DAMA ready.

With over 10,000 units deployed in the past decade - the combat-proven A-320V3A has become a favorite of operators in the field.

Features

- 20-watts / 30-512 MHz
- Single battery operation
- 24 ounces
- Combat-proven - over 10,000 units fielded

Technical Specifications

Part No.	A-320V3A
NSN	5996-01-560-2777
Size H x W x D (inches)	1.5 x 3.75 x 5.5
Weight	24 oz. (680 g.)
Frequency Range	30-512 MHz
Input/Output Impedance	50 ohms
RF Input	5 watts (nominal)
RF Output - FM	20 watts
RF Output - AM	20 watts PEP/110-512 MHz
RX Path Insertion Loss	< 1.5 dB
RX Path VSWR	< 2:1
Bypass Path Insertion Loss	< .5 dB
Power	18-36 VDC
Power @ Transmit	~ 65 watts
Power @ Receive	< 3.0 watts
RF Connector RAD/ANT	BNC/TNC female
Operating Temperature	-40°C to +60°C
Noise Figure	< 3dB
1 dB Compression	22 dBm
Weather Resistant	MIL-STD 810F (submersible 1M for 30 mins.)
EMI	MIL-STD 461E
Finish	Green, anodized