

A-320V3A-MKT

30-512 MHz Amplifier Kit with Battery & Charger

Technical Datasheet

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Overview

Ultralife's A-320V3A (30-512 MHz) amplifier accepts DC power from a single XX90 type battery or any 22-34 VDC power source.

This kit includes Ultralife's high capacity rechargeable UBI-2590 battery (UBBL13-01), as well as a desktop charger (CH0002), providing the perfect solution for dismounted soldiers without access to vehicular power.

Kit Components

- A-320V3A amplifier
- 90-512 MHz multiband antenna
- 30-108 MHz blade antenna
- Quick-release amplifier holder
- Antenna relocater x2 (incl. cable from amplifier to antenna)
- Power cable
- RF cable (amplifier to radio)
- A-320DPA dual port adapter with LNA
- UBBL13-01 UBI-2590 rechargeable battery
- CH0002 desktop charger
- MOLLE vest adapter

Features

- 30-512 MHz
- Supports modern waveforms:
 - SRW (Soldier Radio Waveform)
 - EPLRS (Enhanced Position & Location Reporting System)
- AM operation

Includes A-320V3A Amplifier with these 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

Indicators

Power ON/OFF	•
Power Set	7, 10, 15, 20 watts
TX Active	•
RX Active	•
VSWR Fault	•
FM	•
AM	•
SYS/CUR	•
Battery	•
Over Temperature	•