

LPAS-320U

Lightweight Portable Amplification System

Technical Datasheet

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Overview

The LPAS-320U (Lightweight Portable Amplification System) combines versatility and functionality in one packaged solution weighing less than 13 pounds.

The LPAS includes the popular A-320 amplifier, an integrated MRC-93 rechargeable power supply and universal radio pocket. The universal pocket accepts 16 radios (including variants) fielded today. Optional accessories such as handset, speaker, and antennas are available. The LPAS-320U is lightweight and highly portable.

It is ideal for SATCOM-on-the-move (SOTM) applications where it can be quickly moved from vehicles to TOCs, or used as a manpack kit. The LPAS-320U is designed to accept lithium-ion, lithium, nickel metal hydride, sealed lead acid batteries, or a wide range of AC and DC inputs.

*LPAS-320U compatible with A-320V1, A-320V2-A, and A-320V3 amplifiers ONLY.

Kit Components

- A-320V1 amplifier
- 90-512 MHz multiband antenna
- Integrated MRC-93 power supply
- Universal charging pocket, supporting up to 16 widely fielded handheld radios (including variants)

LPAS-320U Technical Specifications

AC Input	95-265 VAC
DC Input	11-36 VDC
Radio Pocket	Universal
Size (inches)	10.35(W) x 11.3(L) x 3.5(H)
Environmental Qualifications	MIL-STD-810G Temperature Shock Vibration Altitude Humidity Rain Salt Fog Sand & Dust
Reliability	+15,000 hours

A-320 Technical Specifications

Frequency	30-512 MHz (full-spectrum)
RF Input	5 watts (nominal)
RF Output (FM)	20 watts
RF Output (AM)	20 watts PEP/110-512 MHz
Power	18-36 VDC
SINGARS/HAVEQUICK	Compatible
RF Connector (RAD/ANT)	BNC/TNC
Operating Temp.	-40°C to +60°C
Weather Resistant	Yes
Finish	Black, Anodized

MRC-93 Technical Specifications

AC Input	95-270 VAC, 47-440 Hz
DC Input	9-36 VDC
DC Output	26.5 VDC @ 5.5 amps (7 amps peak)
RF Output (AM)	20 watts PEP/110-512 MHz
Size (inches)	3.27(H) x 10.6(W) x 6.25(D)
Weight	3.75 lbs. (w/o battery)
Cables Included	PCP-35 AC input PCP-65 DC input
Cables (Optional)	PCP-55 Auto - DC w/ banana plugs PCP-40 DC input PCP-235 NATO input

MRC-93 Indicators

Battery	•
Charging	•
AC Operation	•
DC Operation	•

Supported Radios

Thales AN/PRC-148 MBITR
Thales AN/PRC-148 JEM
AN/PRC-152 and all variants
ITT Soldier Radio

Supported Power Supplies

MRC-82A (Li-ion)
MRC-92 (Multi-Chemistry)
MRC-93 (Multi-Chemistry)
MRC-99 (Lead Acid)
MRC-132 (Ni-MH)
PSU-40



LPAS-320U includes the popular A-320 30-512 MHz amplifier and a 90-512 MHz multiband antenna