

ULTRALIFE[®]

COMMUNICATIONS SYSTEMS



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AMPLIFIERS



INTEGRATED SYSTEMS



ANTENNAS,
ADAPTERS, &
ACCESSORIES



POWER SUPPLIES

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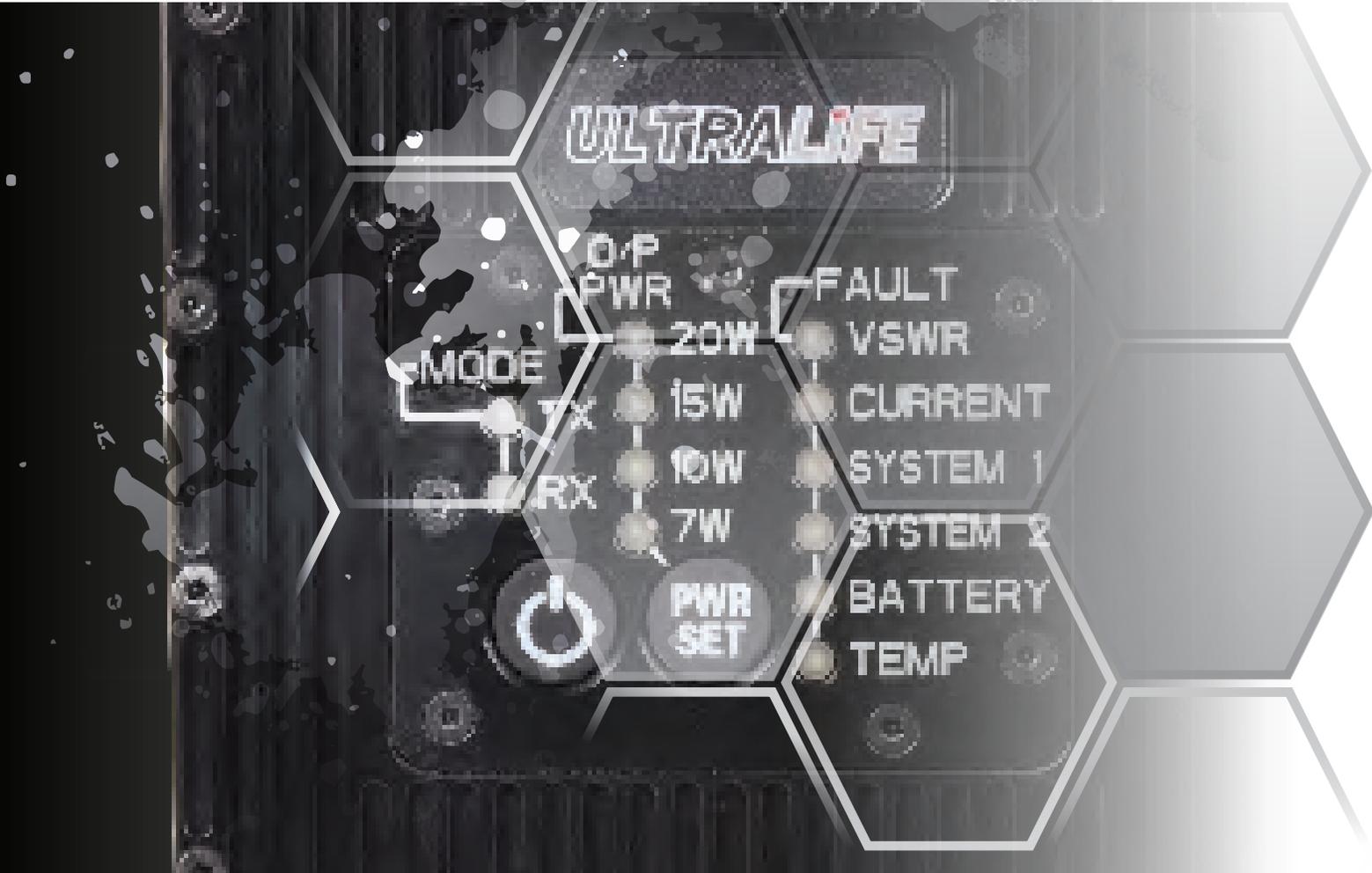


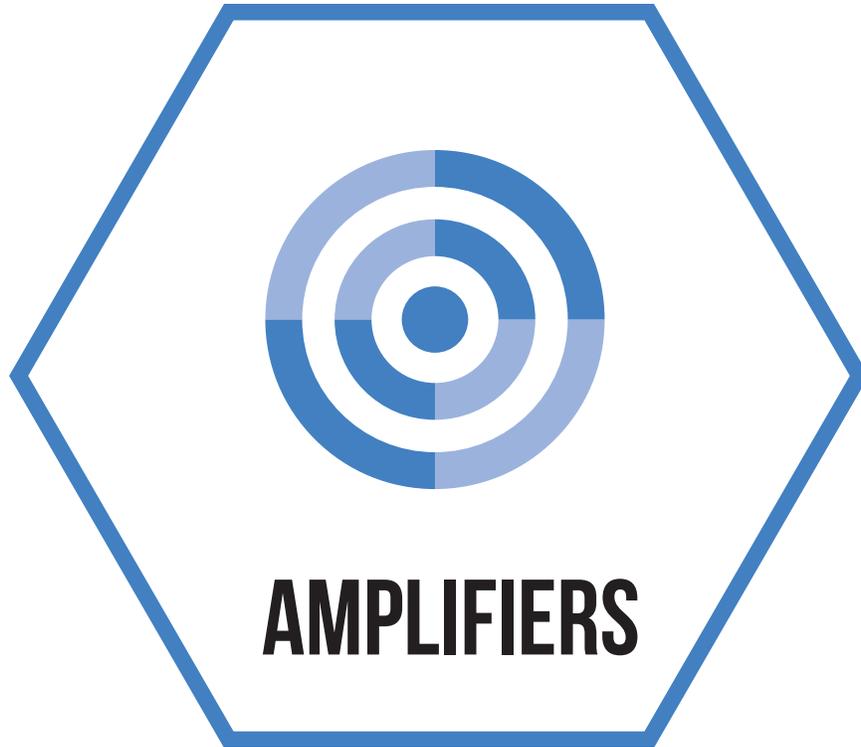
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20-Watt

A-320V3

A-320V3-KT

A-320V3-MKT

A-320DPA

MBA-21R+

MBA-21A

A-320V3 20-Watt 30-512 MHz Amplifier



Overview

We designed this amp specifically to meet the needs of the warfighter. Weighing just 24 ounces, the A-320V3 delivers heavyweight performance and the reliability needed for combat operations. The A-320V3 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-320V3 is HAVEQUICK & SINGGARS compatible, and DAMA ready.

With over 10,000 units deployed in the past decade - the combat-proven A-320V3 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**
- ▶ **Won't jam friendly nets**



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A-320V3 Technical Specifications

NSN	5996015602777
Part No.	A-320V3
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 ohm
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	< 1 dB
Power	18-36 VDC
Power @ Transmit	~ 65 watts
Power @ Receive	< 3.0 watts
RF Conector RAD/ANT	BNC/TNC female
Operating Temperature	-40° to +60° C
Weather Resistant	MIL-STD 810F submersible 1M for 30 mins.
EMI	MIL-STD 461E
Finish	Green, anodized



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A-320V3-KT 30-512 MHz Amplifier Kit



Overview

The A-320V3-KT represents the continued development of Ultralife's combat-proven A-320KT amplifier kit. The kit includes the A-320V3 amplifier, 90-512 MHz multiband antenna, 30-108 MHz antenna, antenna mount, amplifier holster with MOLLE vest adapter, RF cables and power cable. The amplifier itself weighs a mere 24 ounces, and the entire kit weighs less than 3.1 pounds.

The A-320V3-KT supports the latest TDMA waveforms including Soldier Radio Waveform (SRW) and Enhanced Position & Location Reporting System (EPLRS). The amplifier maintains support for legacy communications modes including HAVEQUICK, SINGARS, and DAMA.

See reverse for complete kit picture

Features

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



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A-320V3-KT Technical Specifications

Part No.	A-320V3-KT
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 ohm
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	< 1 dB
Power	18-36 VDC
Power @ Transmit	~65 watts
Power @ Receive	< 3.0 watts
RF Conector RAD/ANT	BNC/TNC female
Operating Temperature	-40° to +60° C
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	•



Complete A-320V3-KT kit with amplifier, amplifier holster, antennas, antenna mount and associated cables.



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A-320V3-MKT 30-512 MHz Amplifier Kit



Overview

The A-320V3-MKT Master Kit raises the standard for a manportable comms solution. The Master Kit includes the A-320V3 amplifier, A320DPA Dual Port Adapter with LNA, 90-512 MHz multiband antenna, 30-108 MHz blade antenna, two antenna relocators, quick-release amplifier holder, associated cabling, a high-capacity rechargeable UBI-2590 battery and CH0002 2590 desktop battery charger.

The A-320V3-MKT supports HAVEQUICK and SINGARS, and is DAMA ready. The included CH0002 safely and efficiently charges UBI-2590 batteries, and includes a universal power supply and LED indicators.

The Master Kit also includes the UBI-2590 High Capacity SMBus™ battery. It features 30 and 15 volt modes, state-of-charge LCD indicator, and SMBus v.1.1 smart battery technology.

See reverse for complete kit picture

Features

- ▶ **Combat proven A-320V3 amplifier**
- ▶ **A-320DPA Dual Port Adapter**
- ▶ **90-512 MHz multiband antenna**
- ▶ **30-108 MHz blade antenna**
- ▶ **UBI-2590 SMBus™ battery**
- ▶ **CH0002 battery charger**
- ▶ **Associated cabling**



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A-320V3-MKT Technical Specifications

Part No.	A-320V3-MKT
Size (Amplifier - H x W x D - inches)	1.5 x 3.75 x 5.5
Weight (amplifier/kit)	24 oz./<3.1 lbs (680 g./<1.5 kg)
Frequency Range	30-512 MHz
Input/Output Impedance	50 ohm
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	< 1 dB
Power	18-36 VDC
Power @ Transmit	~ 65 watts
Power @ Receive	< 3.0 watts
RF Connector RAD/ANT	BNC/TNC female
Operating Temperature	-40° to +60° C
Weather Resistant	MIL-STD 810F submersible 1M for 30 mins.
EMI	MIL-STD 461E
Finish	Green, anodized

Accessories Included

90-512 MHz multiband antenna
 30-108 MHz blade antenna
 Quick-release amplifier holder
 Antenna relocater x2
 Power cable
 RF cable (radio to amplifier)
 RF cable (amplifier to antenna)
 A-320DPA Dual Port Adapter with LNA
 UBI-2590 SMBus™ rechargeable battery
 CH0002 desktop charger
 MOLLE vest adapter



A-320V3-MKT Master Kit

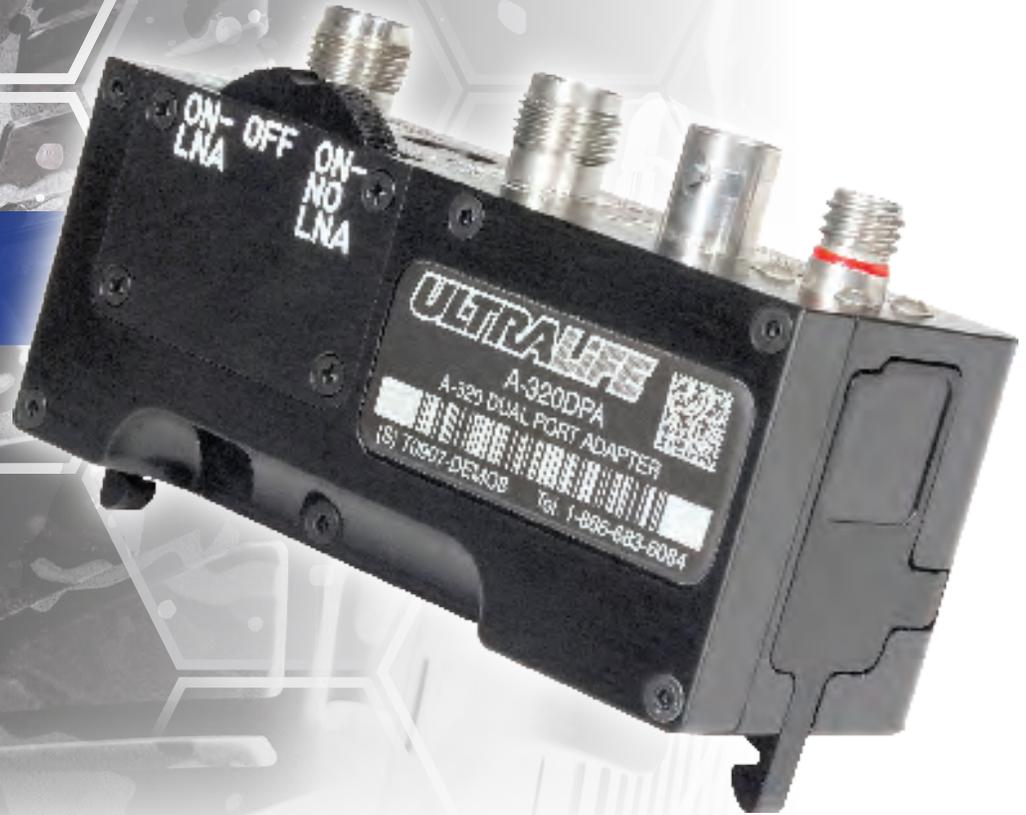


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A-320DPA Dual Port Adapter



Overview

We designed this simple clip on attachment in response to warfighter requests for dual port capability for their A-320 series amplifiers.

The adapter allows for simultaneous connection of two separate RF antennas for differing frequencies. It also functions as a Low Noise Amplifier (LNA) for UHF SATCOM operation - providing approximately 10dB of gain

The lightweight A-320DPA installs without tools. When needed, operators simply clip on the A-320DPA to existing lanyard pins on the A-320 and unclip when desired. It's that easy.

Features

- ▶ **Clips on to any A-320 series amplifier**
- ▶ **Allows for dual antenna use**
- ▶ **LNA functionality for UHF SATCOM**
- ▶ **Utilizes existing A-320 series cables**
- ▶ **Installs without tools**



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A-320DPA Technical Specifications

Part No.	A-320DPA
Size (H x W x D - inches - not including connectors)	3.7 x 1.5 x 1.6
Weight	12 oz. (340 g.)
Frequency Range	ANT1: 30-88 MHz OFF: 30-88 MHz ON-LNA: 30-88 MHz ON-NO LNA: 30-88 MHz ANT2: 116-512 MHz OFF: 116-512 MHz ON-LNA: 116-512 MHz & 292-512 MHz - TX 240-270 MHz - RX ON-NO LNA: 116-512 MHz
Gain	10 dB
Noise Figure	< 3dB
1 dB Compression	22 dBm
Out of Band Rejection	50 dB - 30-220 MHz & 290 MHz
Input Voltage	18-34 VDC
Input Power	2 watts (max)
Input/Output Impedance	50 ohms
Ports	ANT1: 30-88 MHz ANT2: 116-512 MHz
RF Transmit Power	2 watts (max)
Operating Temperature	-30° - +60° C
Operating Altitude	25,000 feet
Finish	Black, anodized

More Technical Specifications Available Online



A-320DPA pictured on A-320 series amplifier



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MBA-21R+

20-Watt 30-512 MHz Amplifier



TNC RF connectors

Overview

This amplifier features AMTI A-320 technology inside the chassis. Specifically, it provides all the advantages of the A-320 along with built-in Low Noise Amplification (LNA) for UHF SATCOM operation. The MBA-21R+ accepts DC input voltages from 9-36 VDC and can be powered from a vehicle cigarette lighter.

Like the A-320, the MBA-21R+ is very power efficient. The MBA-21R+ operates from a single 5590 battery with a supply voltage of 22-36 VDC. When powered by a 5390 battery, operational life can be extended to 24 hours (based on a 15% transmit duty cycle).

Application

This unit provides an ideal solution for the soldier on the move. The unit is radio agnostic, and compatible with virtually any 30-512 MHz radio currently in use by domestic and international militaries and government agencies. MBA-21R+ is DAMA ready, and was designed for the demands of today and the future.

Features

- ▶ **Combat proven**
- ▶ **Supports DAMA and JTRS waveforms**
- ▶ **Full-rated power across the 30-512 MHz range**
- ▶ **Radio manufacturer independent**
- ▶ **Supports HAVEQUICK and SINGARS**
- ▶ **Sealed and weather-resistant**
- ▶ **Remote power ON capability**



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MBA-21R+ Technical Specifications

Part No.	MBA-21R+
Size (H x W x D - inches)	2.5 x 8.1 x 3.3
Weight	2.5 lbs
Frequency Range	30-512 MHz full-spectrum
Input/Output Impedance	50 ohm
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	<1 dB
Power	9-36 VDC (22-36 single battery operation)
Power @ Transmit	~65 watts
Power @ Receive	< 3.0 watts
SINGGARS/ HAVEQUICK	Compatible
RF Conector RAD/ ANT	TNC/TNC female
Operating Temperature	-40° to +60° C
Weather Resistant	MIL-STD 810F submersible 1M for 30 mins.
EMI	MIL-STD 461E
Finish	Black, anodized
Low Noise Amplifier (LNA)	
Frequency	240-270 MHz
Gain	10 dB
Noise Figure	<3 dB
1 dB Compression	22 dBm
Out of Band Rejection	50 dB - 30-220 MHz & 290-512 MHz



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MBA-21A

20-Watt 30-512 MHz Amplifier



TNC RF connectors

Overview

The MBA-21A is built on a solid reputation of outstanding performance. We've heavily leveraged the success of the A-320 series of portable amplifiers and combined this with a Mil-Standard 704 isolated power supply necessary for operation in aviation platforms. A critical performance parameter for any aviation platform is size and weight and the MBA-21A offers outstanding RF performance in a very small and light weight form factor. The MBA-21A is well suited to support legacy AM and FM communication as well as the most modern TDMA based waveform such as Soldier Radio Waveform (SRW).

Application

The amplifier is well suited for airborne and vehicle application with its MIL-STD 1275 and MIL-STD 704 compliant power supply.

Features

- ▶ **Combat proven**
- ▶ **Supports DAMA, JTRS and Modern waveforms**
- ▶ **Full-rated power across the 30-512 MHz range**
- ▶ **Radio manufacturer independent**
- ▶ **Supports HAVEQUICK, SINCGARS, VULOS, ANW2, AND SRW**
- ▶ **Sealed and weather-resistant**
- ▶ **MIL-STD 1275 + 704 Compliant**



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MBA-21A Technical Specifications

Part No.	MBA-21A
Size (H x W x D - inches)	2.5 x 8.1 x 3.3
Weight	2.95 lbs
Frequency Range	30-512 MHz full-spectrum
Input/Output Impedance	50 ohm
RF Input	5 watts (nominal)
RF Output (FM)	20 watts
RF Output (AM)	20 watts PEP/110-512 MHz
RX Gain	6 to 9 dB
RX Noise Figure	< 5 dB
RX 1dB Compression Point	15 dB min. (output)
Bypass Path Insertion Loss	1.3 dB max (Power-off Bypass)
Power	18-36 VDC MIL-STD 1275 + 704 compliant
Power @ Transmit	115W max; 84W Typical
Power @ Receive	15 watts
SINGARS/ HAVEQUICK/ VULOS/ ANW2©/ SRW	Compatible
RF Connector RAD/ ANT	TNC/TNC female
Operating Temperature	-40° to +60° C
Weather Resistant	MIL-STD 810F submersible 1M for 30 mins.
EMI	MIL-STD 461E
Finish	Black, anodized
Low Noise Amplifier (LNA)	
Frequency	30-512 MHz
Gain	6-9 dB
Noise Figure	<5 dB

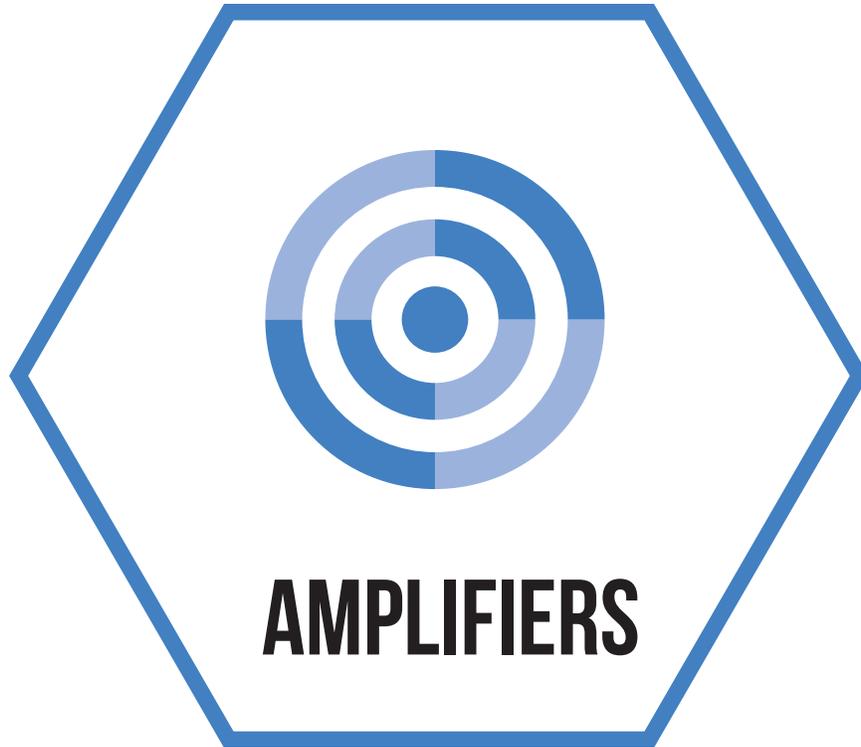


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A-7500

A-3575

*50-Watt
& Above*

A-7500 75-Watt Multimode Amplifier



Overview

Today's high duty-cycle waveforms and extreme environmental deployment areas demand a level of thermal performance that few amplifiers can meet. The A-7500 is a high-performance amplifier that uses advanced thermal techniques and materials to deliver outstanding thermal performance and ultra-fast processing of modern waveforms.

The A-7500 maintains a wide range of compatibility with today's complex waveforms including SRW, EPLRS, ASCM, SINCGARS, HAVEQUICK, DAMA, IW, and other TDMA waveforms.

Ultralife's significant focus on tactical satellite operations has resulted in the A-7500's great adjacent channel power performance and filtering coupled with a 10dB gain low noise figure. The A-7500 is an ideal solution for SATCOM-on-the-Move (SOTM) applications.

Features

- ▶ **Radio independence through RF sensing**
- ▶ **Continuous 30-512 MHz operation**
- ▶ **Exceptional thermal performance**
- ▶ **Ultra-fast switching & processing of modern waveforms**
- ▶ **RS-232 control**
- ▶ **Supports SRW, EPLRS ASCM and more**



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A-7500 Technical Specifications

Part No.	A-7500
Size (H x W x D - inches)	8 x 5 x 4.5
Weight	8 lbs (16 oz.)
Input Voltage	18-36 VDC
Current Draw	280 watts (typical) 420 watts max
MIL-STD-1275	Compliant
Communications	RS-232 for power/mode/reset/fault status
Operating Temperature	-30° to +60° C
Duty Cycle @ Temperature	Convection cooled: +25° C 100% 2 hours Fan cooled: +60° C 100% 1 hour
TX Power	75 watts - SATCOM port 10-50 watts - LOS port (FM/AM/WB)
TX Power Detection Threshold	2 watts
Input Drive Level	3-8 watts
VSWR Tolerance	Up to 4:1
Waveform Compatibility	SRW, IW EPLRS, ASCM, SINCGARS, HAVEQUICK, DAMA
LNA Gain	10 dB +/- 1 dB
LNA NF	3.2 dB max
RX Insertion Loss (Bypass)	1.2 dB max
RX Insertion Loss (Active)	1.7 dB max
810 Environmentals	Vibration: Wheeled & Tracked Altitude: Storage, 37,000 feet Altitude: Operational, 15,000 feet Humidity: 100% relative Blowing Rain: With connectors mated or covered Reliability: 15,000 hours +55° C, ground mobile
Indicators	Over Temp High VSWR RF Input Overload System Mode: - SAT - SAT & LNA - FM/WB - AM System State: - TX - RX - Bypass



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A-3575 75-Watt Multiband Amplifier



Overview

The A-3575 provide the same trademark power and performance associated with all Ultralife amplifiers. Users benefit from consistent amplification across the 30-512 MHz range. Operators select 12, 25 and 50/75 watts. The 50/75 watt power setting provides 75 watts of power in the UHF TACSAT uplink band and 50 watts everywhere else.

Each unit comes with an easy to install 'shock and vibration' isolating mounting tray and fused power cable. The amp weighs less than 11.5 pounds with the included shock tray, and is sealed, watertight, and weather-resistant.

The amp supports Demand Assigned Multiple Access (DAMA) and other JTRS waveforms. The A-3575 is combat-proven, and MIL-STD 461E and MIL-STD 810F compliant.

Features

- ▶ **JITC compliant**
- ▶ **Supports DAMA & other JTRS waveforms**
- ▶ **75 watts for UHF SATCOM**
- ▶ **Multilevel power control for 12, 25 and 50/75 watts**
- ▶ **Weighs less than 11.5 lbs. with shock tray**
- ▶ **Radio manufacturer independent**



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A-3575 Technical Specifications

Part No.	A-3575
Size (H x W x D - inches) (With shock tray assembly)	10.12 x 6.75 x 2.8
Weight	< 12 lbs. including shock tray
Remote Control	RS-232
Frequency Range	30-512 MHz
DC Power	10-36 VDC
DC Input Power - Transmit	420 watts (max)
DC Input Power - Receive	20 watts
RF Input	3-8 watts (5 watts nominal)
RF Output (AM)	12, 25, & 50 watts PEP 110-512 MHz
RF Output (FM)	12 & 25 watts: 30-512 MHz 50 watts: 30-219 & 325-512 MHz 75 watts: 220-324 MHz
RX Path Insertion Loss	< 1.5 dB
RX Path VSWR	< 2:1
Bypass Path Insertion Loss	< 1.5:1 dB
AM Distortion	< 15% 110-512 MHz
MTBF	15,000 hours
Duty Cycle	33% @ 60° C = 50 watts
Operating Temperature	-40° to +60° C
Weather Resistant	IP-65
Finish	Black, anodized
MIL-STD-461E	Certified
MIL-STD-810F	Certified



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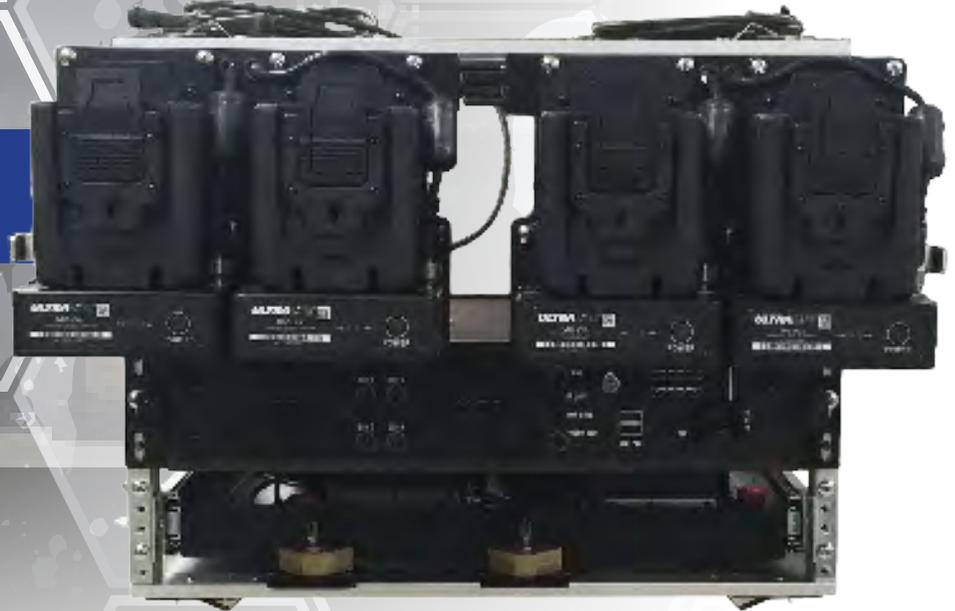
MRC-MC4

MRC-VIPER

LPAS-320U

MRC-MC4

Mobile C4 Intergrated System



Overview

This cutting edge system consists of 4 hand held radio pockets (MRC-UVA) capable of housing, charging and powering a myriad of currently fielded and developmental Tactical Multiband, MANET, ROVER and ISR radios. It will supply 20W (A-320V3) of amplification to 30-512MHz radios. The integrated C-REACH (R) system utilizes WAVE to provide radio interoperability, programming, and Radio over IP (RoIP) compatibility through the use of embedded PCs, a Tablet interface and Radio Side Connectors and will support the dissemination of radio channels, ROVER or other ISR system data and video to local friendly forces via the MANET or other user defined bearer.

The MC4 allows the user to import Link-16 data from a terminal such as the ViaSat STT (Small Tactical Terminal), MOJO, or similar. The system houses 4x removable Quad 2GHz, 8GB RAM, 128GB SSD Credit Card Sized PCs utilizing a LINUX or Windows© based Operating System.

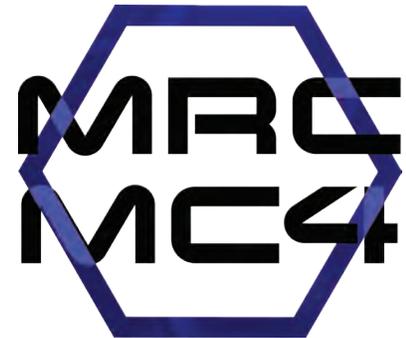
Features

- ▶ **Radio, Bearer and Waveform Agnostic**
- ▶ **Provides Global Beyond Line of Sight Comms (BLOS)**
- ▶ **Charging and Power support for Currently fielded and developmental Handheld Radios**
- ▶ **Up to 4 Radio Channel Gateway**
- ▶ **Dual Video Gateway**
- ▶ **Simultaneous Voice and Data**
- ▶ **Rapidly Deployable**



MRC-MC4 Technical Specifications

Part No.	MRC-MC4
Supported Waveforms	SRW, EPLRS, ASCM, SINGGARS, HAVEQUICK, DAMA, and IW
Supported Software	<ul style="list-style-type: none"> • WAVE™ • TRAX™, FalconView™, Ringtail, RAPTOR-x (Not included) • Other user defined software (LINUX, Windows 7, 8, & Server)
Included Equipment	<ul style="list-style-type: none"> • 4x BioDigitalPC's™ • 4x MRC-UVA - Universal Vehicle Adapter • 4x A-320V3 20W Power Amplifiers • 10-36VDC power supply • C-Reach (R) Module <ul style="list-style-type: none"> ◦ Firewall / Router ◦ 4x Quad 2GHZ, 8GB RAM, 128GB SSD Credit Card Sized PCs ◦ 2x 2.5" SATA III Solid State Drives with 1 TB Capacity, 550MB/s Sequential read speed and 520MB/s Sequential Write Speed ◦ IP Video Encoder
Ports	<ul style="list-style-type: none"> • Amplifiers <ul style="list-style-type: none"> ◦ Radio - TNC ◦ Antenna - BNC • Universal Vehicle Adapters <ul style="list-style-type: none"> ◦ Power in (MIL-26482 Series II) • C-Reach (R) Module <ul style="list-style-type: none"> ◦ 2 x Composite Video Inputs ◦ 1 x WAN Ethernet Connector ◦ 3 x LAN Ethernet connectors ◦ 4 x DP++ video out connector ◦ 4 x USB connector ◦ 1 x PTZ connector for video encoder ◦ 4 x Audio inputs for radio IP conversion.(WAVE) ◦ 1x Serial GPS Input • System <ul style="list-style-type: none"> ◦ MIL-STD
Switches and Indicators	<ul style="list-style-type: none"> • Amplifiers <ul style="list-style-type: none"> ◦ Front Panel, Momentary, Push Button ◦ Power ON/OFF Power Set (7,10,15, 20W) ◦ TX Active ◦ RX Active ◦ VSWR ◦ System / CLR ◦ Battery ◦ Over Temperature • Universal Vehicle Adapters <ul style="list-style-type: none"> ◦ Front Panel, Momentary, Push Button ◦ Power, Charge Status – NVIS Compatible • C-Reach (R) Module <ul style="list-style-type: none"> ◦ 1x Power on / off switch (Toggle) • System <ul style="list-style-type: none"> ◦ MIL-STD



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MRC-VIPER AN/PRC-154 Radio Adapter



Pictured with AN/PRC-154 Rifleman radio. Radio sold separately.

Overview

The VIPER (Vehicle Installed Power Enhanced Rifleman) represents the latest evolution in vehicular communications for the AN/PRC-154 Rifleman Radio*. The VIPER fully supports SRW (Soldier Radio Waveform) and provides 20 watts of RF amplification. The VIPER extends the operational range of the AN/PRC-154 radio, and assures tactical network connectivity by improving the radio's network link margin.

VIPER's small form-factor (3.5"H x 5"W x 11"L) make it an easy choice for vehicle integration where space is limited. Once installed, the AN/PRC-154 radio can be mounted in and removed from VIPER with one hand. VIPER meets a host of MIL-STD-810 environmental, and MIL-STD-461 EMI standards to ensure survivability in the harshest operating environments.

*AN/PRC-154 Rifleman radio sold separately

Features

- ▶ **Extends range of AN/PRC-154**
- ▶ **20 watts of RF amplification**
- ▶ **Integrated Ethernet and USB**
- ▶ **Continuously charges radio's battery**
- ▶ **Small form-factor**



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MRC-VIPER Technical Specifications

Part No.	MRC-VIPER
Size (H x W x D - inches)	10 x 5.25 x 3.45
Weight	8 lbs (6.3 kg)
Input Voltage	10-36 Volts (Appx. 50 watts w/battery charging @ 40% duty-cycle)
Output Power	20 watts
Frequency Range	225-450 MHz - UHF
Waveform Compatibility	SRW (Soldier Radio Waveform)
JTRS Compliant	Yes
EMI Compliance	MIL-STD-461C
Operating Temperature	-31° to +55° C
Storage Temperature	-51° to +71° C
Immersion	1 Meter
Data Rate	SRW data modes supported
Interfaces	USB Ethernet External SAASM (PLGR/DAGR) GPS
Finish	Black, green anodized



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LPAS-320U Lightweight Portable Amplification System



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

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.

Features

- ▶ **Universal charging pocket supports up to 16 widely fielded handheld radios (including variants)**
- ▶ **Includes A-320V3 amplifier**
- ▶ **Includes 90-512 MHz multiband antenna**
- ▶ **Integrated power supply**



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LPAS-320U Features:

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

MRC-93 Power Supply Indicators:

Battery	•
Charging	•
AC Operation	•
DC Operation	•

MRC-93 Features:

AC Input	95-270 VAC, 47-440 Hz
DC Input	9-36 VDC
DC Output	26.5 VDC @5.5 amps (7 amps peak)
Size	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

A-320 Amplifier Features:

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° to +60° C
Weather Resistant	Yes
Finish	Black, Anodized

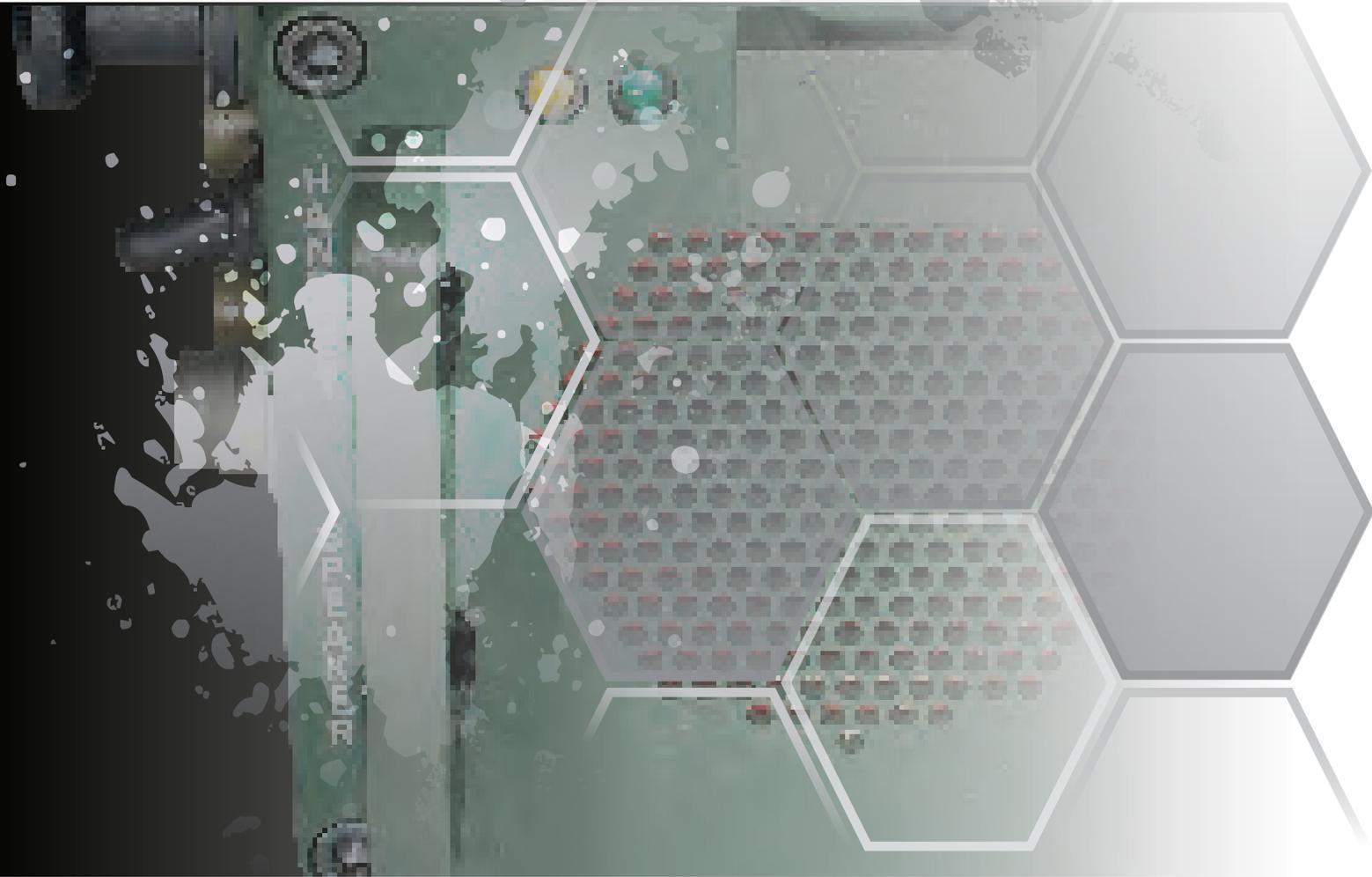
Supported Radios:

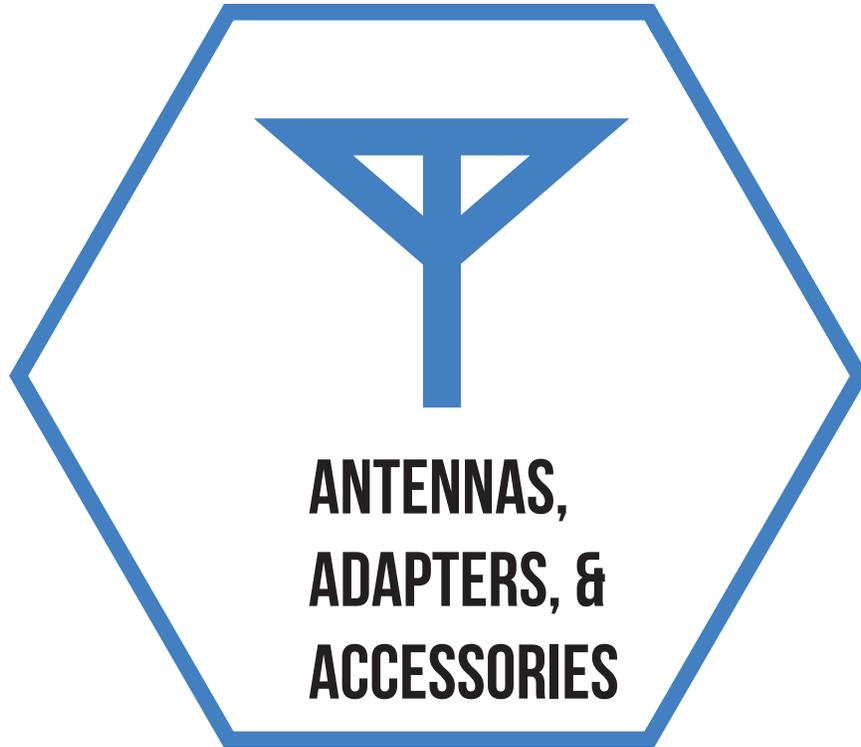
Thales AN/PRC-148 MBITR
Thales AN/PRC-148 JEM
AN/PRC-152 and all variants
ITT Soldier Radio

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







MRC-ARU

*MRC-67 Series
Amplified Speakers*

MRC-HVA

MRC-UVA

A-301-150

MRC-ARU Audio Recording Unit



Overview

The MRC-ARU Audio Recording Unit provides a simple, lightweight means of recording radio audio. With 4Gb of internal flash memory the MRC-ARU allows users to playback training operations in order to better review and refine communications prior to mission execution. With standard 6-pin audio connections, the MRC-ARU can be used with most common handheld or manpack radios and standard audio accessories.

Application

By utilizing the MRC-ARU, users can improve upon, refine, and dissect all voice traffic on a single net including both transmit and receive audio in a training environment in order to develop highly effective communications for when it really counts - in combat.

Durability

The MRC-ARU meets multiple MIL-STD-810G standards. The MRC-ARU is both durable and ruggedized to support the warfighter

Features

- ▶ **Rugged Construction**
- ▶ **6-pin audio interface**
- ▶ **Easily interfaces with PCs via mini-USB connection**
- ▶ **4Gb internal flash memory**
- ▶ **Integrated GPS Receiver**
- ▶ **USB connection or Battery powered**
- ▶ **Stores 40,000 ten second recordings**



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MRC-ARU Technical Specifications

Part No.	MRC-ARU
Size (H x W x D - inches)	2.5 x 3.5 x 1.15
Weight	9 oz.
Primary Power	Commercial CR123 battery (3.0V nominal) x2
Audio File Format	WAVE (.wav)
Altitude	18,000 feet
Audio Connector	MIL-C-55116 family (5/6-pin)
Computer Connector	Mini USB
Indicators	Single LED, multi-color
Geotagging	Date, Latitude / Longitude, Time of Day
NVIS / NVG compatible LED Indicators	<ul style="list-style-type: none"> • GPS Lock • Record Activity • Low Battery • Critical Battery • Memory Full
Weather Resistant	Yes, IAW MIL-STD-810G submersible 1M for 30mins.
Operating Temperature	-30 to + 60° C
Memory	Micro SDHC Card: Stores approximately 40,000 10 second recordings
Battery Life	
Installed Battery Shelf Life	5125 hours (213 Days)
Unit turned on, Idle (Not Recording)	133 hours (5.5 days)
One ten-second recording event every minute	95 hours (3.9 days)



Headset and Radio
Not Included



MRC-67 Series Amplified Speakers



Overview

MRC-67 series amplified speakers are rugged, waterproof audio speaker systems made to withstand tactical environments. The MRC-67 series will monitor a single transceiver and/or encryption unit. They are compatible with virtually any communication systems using the standard transceiver interface audio connections. A variety of power input configurations and colors are available.

The MRC-67 series is ideal for tactical operations centers, SOTM systems, and vehicle use. The MRC-67 series' rugged construction provides audio monitoring in the most demanding tactical environments.

Features

- ▶ **Wide range of DC input voltages**
- ▶ **Internal 5-watt amplifier**
- ▶ **LED indicators**
- ▶ **Automatic muting when handset is keyed**



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MRC-67 Series Technical Specifications

Part No.	MRC-67A/B
Size (H x W x D - inches)	4.75 x 4.75 x 3.75
Weight	3.6 lbs. (1.63 kg.)
DC Input Voltage	10-36 VDC
Audio Input	1.6 V RMS (2.3 V P-P)
Audio Output	5 watts max
Audio Band Pass	300 Hz to 3000 Hz
Total Harmonic Distortion	2% at 5 watts
Sound Pressure Level	90 dBa at 1m with 0.6 V RMS 1 kHz
Speaker Mute	Automatic when PTT keyed
Power Indicator	Green LED NVG compatible
Power Switch	ON/OFF handset operational with speaker Off
Operating Temperature	-50° to +70° C
Storage Temperature	-70° to +85° C
Operating Altitude	15,000 feet
Storage Altitude	55,000 feet
Humidity	95% relative
Variants	MRC-67A: individual power and audio input connectors MRC-67B: integrated power and audio input connector
Color/Part No.	MRC-67A/B-0: Black MRC-67A/B-5: Green MRC-67A/B-7: Red MRC-67A/B-8: Gray
Optional Accessories	See website for optional cables and accessories



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A-320HVA Handheld Vehicle Adapter



Overview

The A-320HVA Handheld Vehicle Adapter is the ultimate solution for vehicle communications. Now you can use the same handheld radio mounted or dismounted. The A-320HVA brings the proven technology of the A-320* amplifier into the vehicle. It is designed specifically for “jerk-and-run” scenarios, and compatibility with widely fielded radios from Thales and others. The A-320HVA features a universal pocket that accepts up to 16 radios (including variants).

The A-320HVA can be used in tactical or non-standard vehicles as it is capable of operating from any 11-36 volt DC power supply. Additionally, the power supply allows the user to attach an amplified speaker such as the MRC-67A to provide an audio interface.

*A-320HVA compatible with A-320V1, A-320V2-A and A-320V3 only.

Features

- ▶ **Universal charging pocket supports 16 radios, including variants:**
 - Thales AN/PRC-148 MBITR
 - Thales AN/PRC-148 JEM
- ▶ **AN/PRC-152 and all variants**
- Exelis Soldier Radio



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A-320HVA Technical Specifications

Part No.	A-320HVA
Size (H x W x D - inches)	6 x 7.5 x 11.5
Weight	< 5lbs (without radio & amplifier)
Input Voltage	11-36 VDC (215 W max, 120 W with cigarette lighter adapter)
Reliability	9,550 hours
MIL-STD-810G Qualifications - Environmental	Temperature Shock Vibration Altitude Humidity Rain Salt Fog Sand & Dust
Operating Temperature	-31° to +60° C
Input Connector	MIL-26482 Series II
Speaker Power Connector	MIL-26482 Series II
Switch	3-position toggle On/Off/Blackout
LED Indicators	3-color
Finish	Black
Accessories Optional	MRC-67A amplified speaker Cigarette lighter adapter



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MRC-UVA Universal Vehicle Adapter



Overview

The MRC-UVA Universal Vehicle Adapter is the ultimate handheld radio docking and charging solution for vehicle communications. Now you can use the same handheld radio, mounted or dismounted. It is designed for “jerk-and-run” scenarios, and is compatible with widely fielded radios from Thales and others.

The MRC-UVA features a universal pocket that accepts up to 16 radios (including variants).

The MRC-UVA can be used in tactical or non-standard vehicles to provide radio mounting and charging. As an added safety feature, the MRC-UVA monitors the radio battery cell temperature to turn off charging if an over-temperature condition exists.

Features

- ▶ **Universal charging pocket supports 16 radios, including variants:**
 - Thales AN/PRC-148 MBITR
 - Thales AN/PRC-148 JEM
 - AN/PRC-152 and all variants
 - Exelis Soldier Radio



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MRC-UVA Technical Specifications

Part No.	MRC-UVA
Size (H x W x D - inches)	7.13 x 4.88 x 3.56
Weight	< 2.5 lbs (without radio)
Input Voltage	11-36 VDC (12V / 24V Vehicle compatible) (100 W max)
Reliability	15,000 hours (MIL-HDBK-217F)
Operating Temperature	-30° to +49° C
DC Input Connector	Glenair Mighty Mouse series
Switch	Front Panel, momentary pushbutton
Indicators	Power/Charge Status, NVIS Compatible
Finish	Black
Qualifications	

o MIL-STD-1275 (Military Vehicle DC Power)

o MIL-STD-810 (Environmental)

- Altitude
- Temperature
- Humidity
- Salt Fog
- Sand + Dust
- Shock
- Vibration
- Crash Safety
- Blowing Rain

o MIL-STD-461 (EMI, EMC)

- CS101
- CS114
- CS115
- CS116
- CE102



Radio sold separately.



A-301-150 Satellite Radio Combiner



Overview

Ultralife's A-301-150 satellite radio combiner (diplexer) enables simultaneous transmission and reception of any two military UHF satellite radio channels operating in the 243 – 318 MHz SATCOM band on a single antenna. Designed for continuous operation in tactical environments, the A-301-150 is packaged in a compact rugged, weatherproof housing. Flexibility extends to fixed site locations, boats, aircraft, vehicles, shelters, and racks.

The A-301-150 is ideal for SATCOM on the move (SOTM) requirements where limited antenna availability may hinder operations (maritime surface craft, vehicles, aircraft, and submarines). The satellite radio combiner incorporates extensive transmit and receive filtering to ensure no performance degradation in either channel during simultaneous transmit and receive operations. Multiple modes of operation provide users with flexibility while configuring communications networks. The A-301-150 satellite radio combiner allows users to interface their own RF power amplifiers (up to 150 watts per channel).

Features

- ▶ **Simultaneous 2-channel transmit & receive**
- ▶ **Up to 150 watts per channel**
- ▶ **LNA Gain +25 dBm**
- ▶ **No T/R switching (full duplex)**
- ▶ **Wired remote control capable**
- ▶ **3 modes of operation optimize RF performance**



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A-301-150 Technical Specifications

Part No.	A-301-150
Size (H x W x D - inches)	5.6 x 8.25 x 11.0
Weight	< 16 lbs. (7.26 kg.)
Frequency Range	Transmit: 292-318 MHz Receive: 243-270 MHz
Primary Power	8-36 VDC @ 20W (max)
Input/Output	50 ohm (nominal)
Radio Port to Port Isolation	50 dB
VSWR	< 2.0:1
Environmental	MIL-STD-810G
Shock/Vibration/Crash Safety	D0160F (Rotary Wing)
Reliability	19,000 hours
Operating Temperature	-30 to +60° C
Finish	FED-STD 959B, Black

Transmit Performance

Bypass Mode (Off)		Single Mode		Dual Mode	
Frequency	200-400 MHz	Frequency	292-318 MHz	Frequency	292-318 MHz
Impedance	50 ohm	Impedance	50 ohm	Impedance	50 ohm
VSWR	2:1 max.	VSWR	2:1 max.	VSWR	2:1 max.
Insertion Loss	0.35 dB (typical)	Insertion Loss	1.6 dB (typical)	Insertion Loss	4.7 dB (typical)

Receive Performance

Bypass Mode (Off)		Single Mode		Dual Mode	
Frequency	200-400 MHz	Frequency	243-270 MHz	Frequency	243-270 MHz
Impedance	50 ohm	Impedance	50 ohm	Impedance	50 ohm
VSWR	2:1 max.	VSWR	2:1 max.	VSWR	2:1 max.
Insertion Loss	0.35 dB (typical)	P1dB	-25 dBm	P1dB	-25 dBm
		Gain	+28 dBm (typical)	Gain	+25 dBm (typical)
		Noise Figure	4.3 dB (typical)	Noise Figure	7.2 dB (typical)

Indicators

Active Forward Power Meter

Protection

VDC input under/over voltage

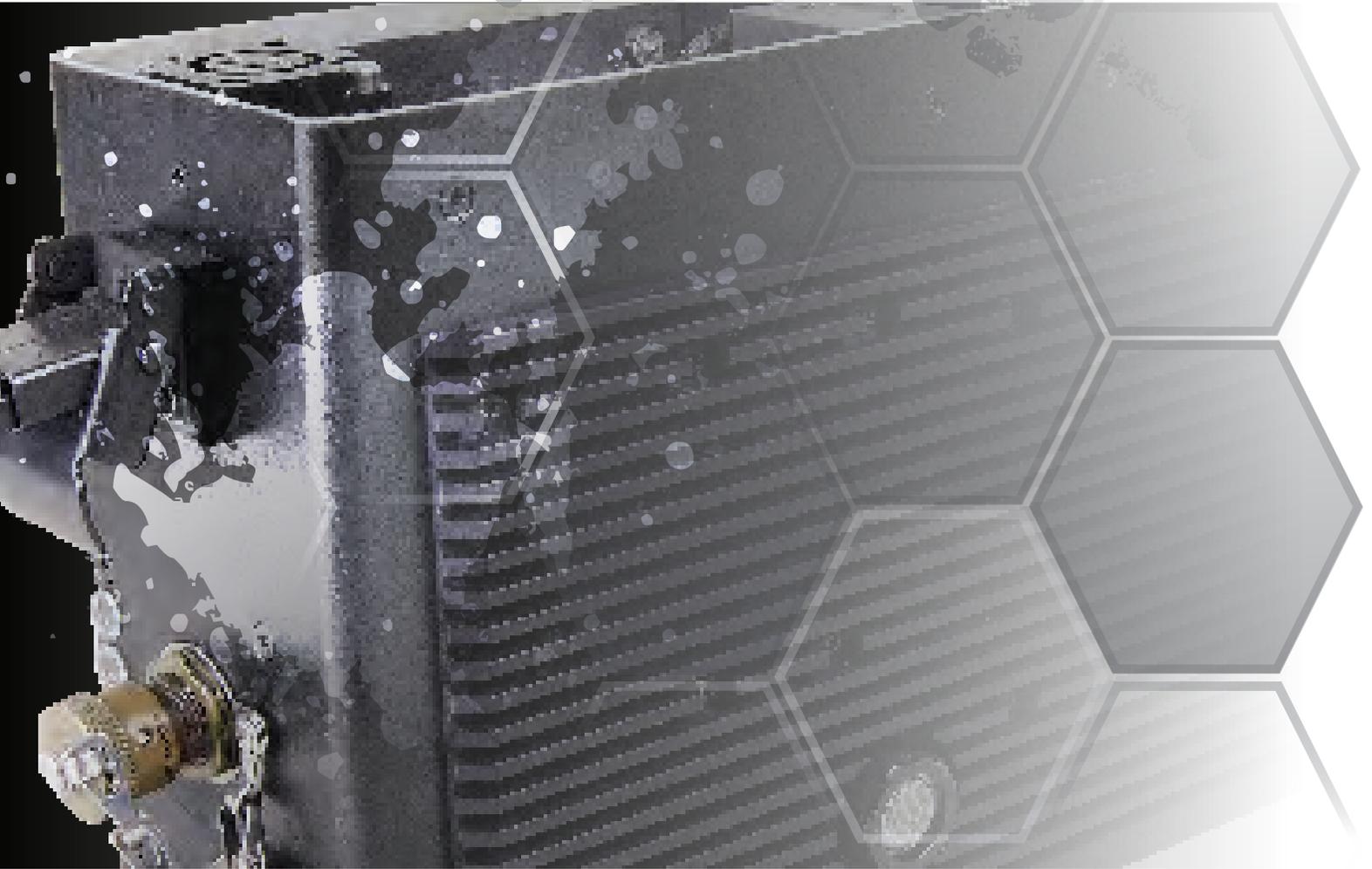
VDC input over current

LNA - I/P & O/P

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MRC-82A

MRC-99

MRC-UPU0003

MRC-UPU0006-1

MRC-187

MRC-82A Power Supply & Charger



Overview

Incorporating a rechargeable Lithium-Ion battery (UBI-2590), the MRC-82A provides long life battery operation for an array of transceivers. Internal UBI-2590 battery allows for the operation of a transceiver independent of the external power source. An internal charger allows the MRC-82A to recharge the battery while the transceiver is operating.

Features

- ▶ **Wide range of AC and DC input voltages**
- ▶ **Auxiliary 26.5 VDC output**
- ▶ **AC and DC modules allow transceiver operation independent of recharge**



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MRC-82A Technical Specifications

Part No.	MRC-82A
NSN	6130-01-513-9182
Size (H x W x D - inches)	3.27 x 10.6 x 6.25
Weight	4.6 lbs. (without battery)
AC Input Voltage	95-265 VAC 47-440 Hz
DC Input Voltage	9-36 VDC
DC Output Voltage	26.5 VDC at 5.5 amps 26.5 at 7 amps (peak)
Battery Type	UBI-2590, BB-2590 Rechargeable Lithium Ion
Operating Temperature	-30° to +60° C
Storage Temperature	-50° to +65° C
Operating Altitude	27,000 feet
Storage Altitude	55,000 feet
Humidity	95% relative
LED Indicators	AC/DC/Battery Power
Cables Included	PCP-35 AC input cable PCP-40 DC input cable
Cables Optional	PCP-55/65 Auto - DC w/banana plugs PCP-235 NATO input cable



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MRC-99 Series Power Supply & Charger



Overview

MRC-99 series interoperable power supplies and chargers connect directly to the following radios:

- AN/PSC-5 Series
- AN/PRC-117F
- AN/PRC-150 Transceiver
- AN/PRC-138 Series Transceivers
- AN/URC-200 Series Transceivers

The MRC-99-01 uses an MRC-490(V1) sealed lead-acid battery. The MRC-99-02 uses a commercially available sealed lead-acid battery.

Features

- ▶ **Wide range of AC and DC input voltages**
- ▶ **Auxiliary 26.5 VDC output**
- ▶ **AC and DC modules allow transceiver operation independent of recharge**



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MRC-99 Technical Specifications

Part No.	MRC-99
Size (H x W x D - inches)	3.27 x 10.6 x 6.25
Weight	3.75 lbs. (without battery)
AC Input Voltage	95-265 VAC 47-440 Hz
DC Input Voltage	9-36 VDC
DC Output Voltage	26.5 VDC at 5.5 amps 26.5 at 7 amps (peak)
Battery Type	UBI-2590, BB-2590 Sealed Lead-Acid
Operating Temperature	-30° to +60° C
Storage Temperature	-50° to +65° C
Operating Altitude	27,000 feet
Storage Altitude	55,000 feet
Humidity	95% relative
Immersion	10 feet
Cables Included	PCP-35 AC input cable PCP-40 DC input cable
Cables Optional	PCP-55/65 Auto - DC w/banana plugs PCP-235 NATO input cable



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MRC-UPU0003 Power Supply for AN/PRC-117G



Overview

The MRC-UPU0003 Uninterruptible Power Supply was designed specifically for the AN/PRC- 117G radio. Virtually any AC or DC power source is compatible with this power supply making it an ideal solution for providing uninterrupted power, anywhere. When used with the AN/PRC-117G at an 8:1:1 duty cycle, the unit provides greater than 3 hours run time.

Like all Ultralife power supplies, the MRC-UPU0003 is 85-250VAC/47-440 Hz ready, and has the ability to be powered from virtually any DC input source likely to be encountered in military and/or commercial vehicles. Each is MIL-STD-461E for EMI compliance and MIL-STD-810 compliant.

Features

- ▶ **Wide range of input voltages**
- ▶ **Self-contained operation**
- ▶ **Recharges while operating**
- ▶ **Optional vehicle mount available**
- ▶ **Simple arm/disarm toggle switch**
- ▶ **Lightweight - 5lbs. w/battery**



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MRC-UPU0003 Technical Specifications

Part No.	MRC-UPU0003
Size (H x W x D - inches)	3.9 x 7.1 x 5.75
Weight	5lbs. including battery
AC Input Voltage	85-250 VAC 47-440 Hz
DC Input Voltage	10-36 VDC MIL-STD-1275
Output Voltage (Internal Battery)	24-33 VDC Lithium Ion
Transceiver Power	3 amp continuous 4 amp peak
Aux Power Output	26.5 VDC @ 1 amp continuous
Operating Temperature	-30° to +60° C
Storage Temperature	-40° to +71° C
Operating Altitude	15,000 feet
Storage Altitude	40,000 feet
Immersion	MIL-STD-810G
Humidity	95% relative
LED Indicators	AC/DC/Battery Power
Battery Charge	6 hours
Safety	Auto-reset, over-current protection
Cables Included	PCP-35 AC input cable PCP-65 DC input cable
Finishes Available	Black (MRC-UPU0003) Olive (MRC-UPU0004) Sand (MRC-UPU0005)
Optional Accessories	See website



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MRC-UPU0006 Series AN/PRC-117G Power Supply



Overview

The MRC-UPU0006 series uninterruptible power supplies are designed specifically for the AN/PRC-117G radio. The MRC-UPU0006 features threaded standoffs on the bottom face of the unit. The power supply is also available without the standoffs (model MRC-UPU0006-01). The MRC-UPU0006 series feature simple arm/disarm toggle switches that removes the load from the internal battery when in the “disarm” position.

When used with the AN/PRC-117G at an 8:1:1 duty cycle, the unit provides greater than 3 hours run time. Like all Ultralife power supplies, this series is 85-250VAC/47-440 Hz ready, and has the ability to be powered from virtually any DC input source likely to be encountered in military and/or commercial vehicles. Each is MIL-STD-461E for EMI compliance and MIL-STD-810 compliant.

Features

- ▶ **Wide range of DC input voltages**
- ▶ **Rear mounted connectors**
- ▶ **Available with threaded standoffs**
- ▶ **Simple Arm/Disarm toggle key**
- ▶ **Self contained operation**



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MRC-UPU0006 Series Technical Specifications

Part No.	MRC-UPU0006 (w/threaded standoffs) MRC-UPU0006-1
Size (H x W x D - inches)	3.91 x 7.1 x 5.75
Weight	5 lbs. nominal (including battery)
AC Input	85-250 VAC 47-440 Hz
DC Input Voltage	10-36 VDC
DC Output	26 VDC +/- 1V
Output Voltage of Internal Battery	24-33 VDC (Lithium Ion)
Transceiver Power	3A continuous / 4A peak
Aux Power Output	26.5 VDC @ 1A continuous
Duty Cycle	8.1:1 - 3 hrs +
Operating Temperature	AC/DC: -30° to +60° C Battery (Charging): 0° to +45° C Battery (Discharging): -20° to +60° C
Storage Temperature	-40° to +71° C
Operating Altitude	15,000 feet
Storage Altitude	40,000 feet
Immersion	MIL-STD-810G
Humidity	95% relative
LED Indicators	AC/DC/Battery Power
Battery Charge	6 hours charge time
Safety	Auto reset over-current protection
Cables Included	PCP-35 AC input PCP-65 DC input
Cables Optional	PCP-55 Auto - DC automobile adapter PCP-40 DC input MRC-143A-07-02 NATO input
Accessories Optional	MRC-67A amplified speaker
Color/Part No.	MRC-UPU0006 (w/threaded standoffs) MRC-UPU0006-1



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MRC-187 Power Supply & Charger



Overview

The MRC-187 incorporates a state-of-the-art rechargeable Nickel Metal Hydride Battery (BB-390) to provide long life battery operation in addition to worldwide power applications for a number of transceivers presently fielded by the U.S. military:

- AN/PRC-117F Transceiver
- AN/PRC-138 Series Transceivers
- AN/PRC-150 Series Transceivers
- AN/PSC-5D MBMMR Transceiver
- AN/PSC-5 Series Transceivers

Features

- ▶ **Wide range of AC and DC input voltages**
- ▶ **Can power amplified speakers or other 26.5 VDC applications**
- ▶ **AC and DC modules allow transceiver operation independent of recharge**
- ▶ **Recharges strings of battery cells independently**



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MRC-187 Technical Specifications

Part No.	MRC-187
Size (H x W x D - inches)	3.27 x 10.6 x 6.25
Weight	4.6 lbs. (without battery)
AC Input Voltage	95-265 VAC 47-440 Hz
DC Input Voltage	9-36 VDC
DC Output Voltage	26.5 VDC at 5.5 amps 26.5 at 7 amps (peak)
Operating Temperature	-30° to +55° C
Storage Temperature	-50° to +65° C
Operating Altitude	27,000 feet
Storage Altitude	55,000 feet
Humidity	95% relative
Cables Included	PCP-35 AC input cable PCP-40 DC input cable
Cables Optional	PCP-55 Auto adapter DC power cable PCP-235 NATO input cable PCP-257V DC input cable



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