



## XG-100LPA POWER AMPLIFIER VHF LOW BAND

### INCREASED INTEROPERABILITY FOR UNITY XG-100M MOBILES

The XG-100LPA Low Band Power Amplifier extends the versatility and interoperability of the Unity® XG-100M mobile by adding efficient transmission capability at 33 to 48 MHz. At 100 Watts of power, the XG-100LPA provides a broad coverage area, ensuring safe and reliable voice communications. The rugged mechanical package provides robust performance in harsh environments.

#### FEATURES

Expands interoperability of the Unity XG-100M into VHF Low Band frequencies

Extends communications for added efficiency and increased user safety

Features durable construction for demanding environments. The unit meets MIL-STD-810G specifications for humidity, altitude, temperature, vibration, and shock

#### EXPANDED INTEROPERABILITY

Unity XG-100M users can now experience expanded interoperability, given the capability to communicate with multiple jurisdictions and agencies operating on multiple frequencies and systems, including VHF Low Band.

The XG-100LPA Power Amplifier provides the following features:

- Expands the Unity XG-100M into VHF Low Band
- Supplies user-selectable transmit power of 100 or 30 Watts

- Incorporates durable construction that meets the same MIL-STD-810G specifications as the Unity XG-100M mobile
- Matches the dimensions of the Unity XG-100M mobile
- Stacks directly on the mobile, ensuring a small footprint
- Includes a 3-year warranty

## GENERAL SPECIFICATIONS

### Dimensions (W x L x D):

2.68 x 8.8 x 9.3 in.  
(6.81 x 22.4 x 23.6 cm)

### Weight:

7 lb (3.2 kg)

### System Voltage:

13.6 VDC  $\pm$  20%

### DC Supply Current:

<25A

### Ambient Temperature Range:

-22 to +140°F  
(-30 to +60°C)

### Duty Cycle:

TIA-603-D

## TRANSMITTER

### Typical Performance Specifications

Frequency Response (MHz):	33 to 48
Rated Power Output (W):	100 or 30 (user selectable)
RF Output Impedance (ohm):	50
Frequency Stability (ppm):	$\pm$ 0.5
Modulation Deviation (kHz):	$\pm$ 5
FM Hum and Noise (dB):	50
Spurious and Harmonic Emissions (dBm):	<-15
Adjacent Channel Power (dBc):	>70

## ENVIRONMENTAL SPECIFICATIONS

Standard	Parameter	Methods & Procedures
MIL-STD-810G	High Temperature	501.5/1,2
	Low Temperature	502.5/1,2
	Temperature Shock	503.5/1
	Solar Radiation	505.5/2
	Altitude	500.5/1,2
	Salt Fog	509.5/1
	Sand and Dust	510.5/2
	Rain (IP65)	506.5/1
	Humidity	507.5/2
	Shock	516.6/1.5
	Vibration	514.6/1, Cat 4 & 24

## ANTENNA OPTIONS

AN-025127-101	Low Band Mobile Antenna 30-35 MHz NMO DC ground
AN-025127-102	Low Band Mobile Antenna 34-37 MHz NMO DC ground
AN-025127-103	Low Band Mobile Antenna 37-40 MHz NMO DC ground
AN-025127-104	Low Band Mobile Antenna 40-47 MHz NMO DC ground
AN-025127-105	Low Band Mobile Antenna 45-48 MHz NMO DC ground
AN-125001-002	Std Mount for AN-025127-101 through AN-025127-105

### About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately \$8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

Technical specifications are subject to change without notice. Product sales are subject to applicable U.S. export control laws.

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