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L3HARRIS RF-300W-PA050

Power Amplifier

| GENERAL | |
|-------------------|--|
| RT Nomenclature | RF-300W-PA050 |
| Frequency Range | Narrowband: 30-512 MHz Wideband: 225-450 MHz SATCOM RX: 242-268 MHz SATCOM TX: 292-318 MHz ECCM: 30-90 MHz and 225-400 MHz |
| TRANSMITTER | |
| Power Output | Wideband: 25 watts Narrowband Fixed: 50 watts ECCM: 50 watts SATCOM: 50 watts |
| POWER | |
| Power Input | 12-32 VDC Input |
| Power Consumption | Maximum 5.8 amps |
| WAVEFORMS | |
| Narrowband | FM/FSK, AM/ASK, Quicklook ECCM Suite |
| Wideband | MTNW (Mid-Tier TDMA Networking Waveform) |
| UHF SATCOM | STC (Satellite Tactical Communications) |
| PHYSICAL | |
| Dimensions | 2 H x 3.5 W x 8.15 D in (5.1 H x 8.9 W x 20.7 D cm) |
| Weight | 3.4 lbs (1.5 kg) |
| ENVIRONMENTAL | |
| Temperature | -22°F to +122°F (-30°C to +50°C) operational |
| Immersion | 3 feet (1 meter) |
| STANDARD KIT | |
| A30-1277-001 | RF amplifier, 25/50 watts multiband, 12/24 VDC |
| A30-1277-501 | Quick Reference Card for TCR-MBA-50 wideband power amplifier |
| A30-1277-502 | Operation Card |
| W80-0079-001 | Cable Assembly, 12 V - 28 VDC, TCR-MBA-50 |



The L3Harris RF-300W-PA050 is a software-defined RF amplifier designed to extend the range of airborne waveforms. The amplifier supports wideband networking, UHF SATCOM, narrowband fixed frequency and ECCM waveforms. A simple three-button user interface controls the mode, antenna selection and output power. It features a dimmable front panel displaying operating mode and amplifier status. The RF-300W-PA050 Power Amplifier has a DC power connection, a radio port and three mode-specific antenna ports.

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1025 W. NASA Boulevard
Melbourne, FL 32919