The 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.

**SPECIFICATIONS**

**RF-300W-PA050 Power Amplifier**

The 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.

### GENERAL

<table>
<thead>
<tr>
<th>RT Nomenclature</th>
<th>RF-300W-PA050</th>
</tr>
</thead>
</table>
| 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

<table>
<thead>
<tr>
<th>Power Input</th>
<th>12-32 VDC Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>Maximum 5.8 amps</td>
</tr>
</tbody>
</table>

### WAVEFORMS

**Narrowband**
- FM/FSK, AM/ASK, QUICKLOOK ECCM Suite

**Wideband**
- MTNW (Mid-Tier TDMA Networking Waveform)

**UHF SATCOM**
- STC (Satellite Tactical Communications)

### PHYSICAL

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>2 H x 3.5 W x 8.15 D in (5.1 H x 8.9 W x 20.7 D cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.4 lbs (1.5 kg)</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Temperature</th>
<th>-22º F to +122º F (-30º C to +50º C) operational</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immersion</td>
<td>3 feet (1 meter)</td>
</tr>
</tbody>
</table>

### 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
About Harris Corporation
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