



# PSSA-30M300M-4000

## 4000W CW SS Amplifier

### Solid State Power RF Amplifier

The PSSA-30M300M-4000 is a Solid State 4000 (CW) RF Amplifier which covers frequency range from 30MHz to 300MHz. This amplifier can achieve high efficiency operation with proven reliability as is designed with the robust engineering and employment of the most advanced devices and components. The amplifier comes with 1 year warranty.

| Parameter                    | Specification  |
|------------------------------|--|
| <b>Electrical</b>            |  |
| Frequency Range              | 30-300MHz  |
| Output Power                 | 4000W CW, typical; 2000W @ P1dB  |
| Internal Protection          | Up to 0dBm with no damage  |
| Gain @ rated power           | 66dB min.  |
| Gain Adjustment              | 0 to 20dB  |
| Input /Output Impedance      | 50 ohms(VSWR 2.0:1)  |
| RF Input / Output Connectors | Type N Female  |
| Modulation                   | AM / FM / Pulse  |
| Spurious                     | -50dBc   |
| Harmonics                    | 2 <sup>nd</sup> , -20dBc Typical @ P1dB<br>3 <sup>rd</sup> , -15dBc Typical @ P1dB |
| Prime Power                  | 220V AC +/-10%, 50/60 Hz, Three phase  |
| Power Consumption            | 20KVA  |
| <b>Mechanical</b>            |  |
| Configuration                | Double Racks<br>44"W x 36"D x 50"H   |
| Cooling System               | Air cooled ,self contained   |
| Shock                        | MIL-STD-810C, method 516.2   |
| Vibration                    | MIL-STD-810C, method 514.2   |
| Temperature                  | 0° to 45°C   |
| Non-operating temp           | 0° to 60°C   |
| Humidity                     | 95% without condensation   |
| Altitude                     | 10, 000 feet   |

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



### **Features [Build-in]**

- VSWR Protection with Power Fold back when VSWR is greater than 3:1.
- RS 232 & Ethernet Remote Control.
- Gain Control.
- Leveling Control [ALC].
- Internal Pre-Amp.
- RF Input / Output Connectors on the Front Panel.
- Standby/RF\_ON, Elapsed Time Metering in hours.
- Color TFT Touch screen Display with Front Panel Controls and Indicators.

### **OPTIONS**

- |     |  |
|-----|--|
| 001 | VSWR Protection against any output mismatch greater than 6:1; will operate without damage or oscillation against any magnitude and phase of source and load impedance. |
| 002 | Alternate Prime Power (specify at time of order).  |
| 003 | Pin-Diode Pulse Modulation.  |
| 004 | Forward RF Sample Port Type N Female -50dBc nominal on the Front or Rear Panel.  |
| 005 | Reflected RF Sample Port Type N Female -50dBc nominal on the Front or Rear Panel.  |
| 006 | RF Input / Output Connectors on the Front /Rear Panel (Specify front or rear at time of order).  |
| 007 | Gain Equalizer.  |
| 008 | Input Power Limiter.   |
| 009 | RF Safety Interlock, type BNC Connector.   |
| 010 | Slides for Rack mount.   |

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