



# PSSA-80M1G-1500

## 1500W CW SS Amplifier

### Solid State Power RF Amplifier

The PSSA-80M1G-1500 is a Solid State 1500W CW RF Amplifier which covers frequency range from 80MHz to 1000MHz. 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.

### FEATURES

- Rack mounted cabinet system
- Class A-AB linear LDMOS design
- Instantaneous wide bandwidth  
Suitable for all single channel modulation standards, EMC, Automotive
- Built-in protection circuits
- Unprecedented Quiet-Cool Technology
- High reliability and ruggedness

### Parameter

### Specification

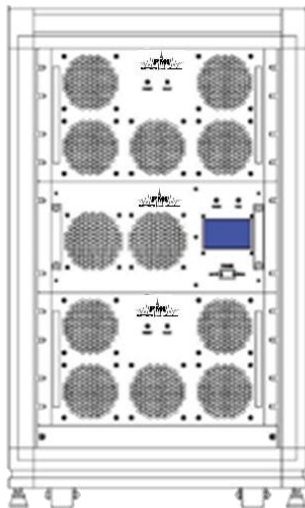
#### Electrical

Frequency Range	80 - 1000 MHz
Output Power	1200 Watt Min CW 1500W typ
Power Output @P1dB GCP	1000 Watt Min P1 1200W typ
Power Gain	62 dB Min
Gain Adjustment Range	>25dB 30dB typ
Power Gain Flatness	3.0 dB p-p Max
Input Return Loss / Impedance	10 dB Min/50 Ohms typ <1.5:1 / Relative to 50 Ohm
Output Impedance	50 ohms nominal
Mismatch Tolerance	The output maintains 100% of rated power output under any impedance mismatch and will not damage the amplifier up to 6:1
2-Tone Intermodulation (IMD / IP3)	-30 dBc Min 53dBm/Tone, $\Delta = 1\text{MHz}$
Noise Figure	8 dB Max At full gain, 6dB typ
Harmonics	<-20 dBc Max
Spurious	-60 dBc Max Non-harmonics
Operating Voltage	230 VAC, 3-Phase
Power Consumption	8 KW Max At rated Pout
Input Power Protection	+8 dBm Max <10 Sec without damage
Load VSWR Protection	6 : 1 Max Auto shutdown at >6 : 1 load VSWR

#### Environmental

Operating Ambient Temperature	0 to +50 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	5 to 95 % Non-condensation

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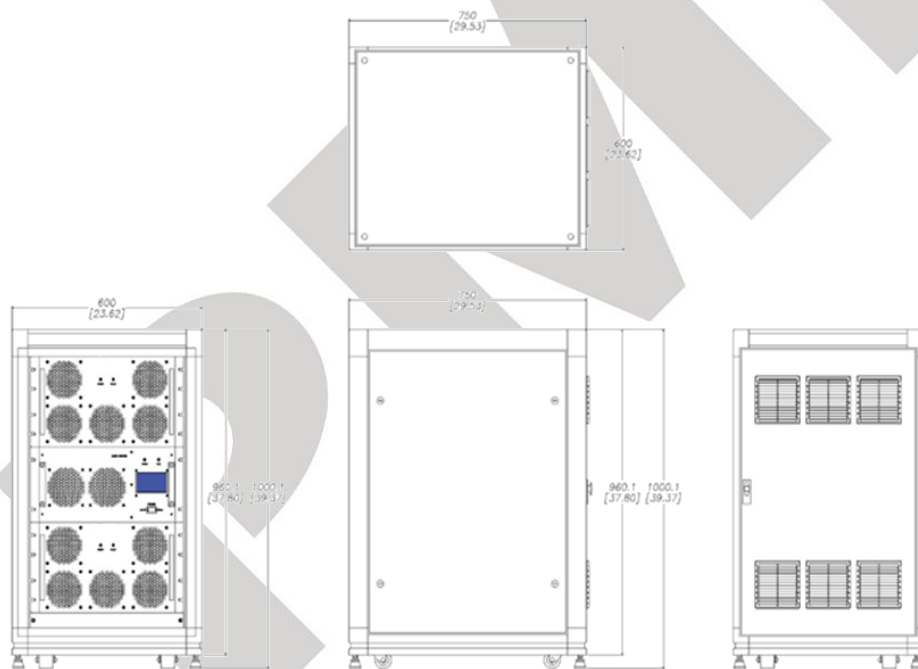


## Parameter

## Specification

### Mechanical

Configuration	2 x R7U + R5U
W x H x D	Cabinet with Rack drawers
Weight	500lbs nominal
RF Connectors In / Out	Type-N Female / 7/16 DIN Female
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub Or equivalent
Cooling	Built in Fan Cooling Variable speed
STANDARD : Digital Monitor & Control :	Ethernet RJ-45 TCP/IP, RS422/485 GPIB Interface
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Remote Bluetooth app- (available upon request)



Distributed by

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