

**FEATURES**

Designed for EMI/RFI, lab, HIRF/Pulse applications  
 Small form factor rack-mounted system  
 Class AB linear Advanced technology design  
 Instantaneous C-Band octave bandwidth  
 Linear high peak pulse applications  
 Built-in protection circuits with extensive monitoring  
 Local LCD & remote flexible interfaces  
 High efficiency with unprecedented reliability and ruggedness


**ELECTRICAL SPECIFICATIONS: 50Ω, 25°C**

Parameter	Specification	Notes
Operating Frequency Range	4.0 - 8.0 GHz	
Power Output @ Peak Pulse	4.0 KW Typ / 3.5KW Min	Pulse
Input Pulse Characteristics	<b>Width</b>	<b>Rise/Fall</b> <50 nS Typ
	<b>Duty</b>	
	up to 100 μS	up to 100 KHz
Power Gain	66 dB Min	0dBm or less for rated Pout
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote capable
Input Return Loss	-10 dB Max	
Output Power On/Off Ratio	80 dB Max	TTL Gate Control
Harmonics	<-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47 - 63Hz
Power Consumption	2.0 KW Max	At rated Pout
Input Power Protection	+10 dBm Max <sup>1</sup>	
Load VSWR Protection	4 : 1: Max <sup>2</sup>	Foldback @ preset limit
Sample Port (optional)	-60 dB	N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

**ENVIRONMENTAL CHARACTERISTICS**

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport <sup>3</sup>	

3 MIL Spec available for quotation

**MECHANICAL SPECIFICATIONS**

Parameter	Specification	Notes
Dimensions W x H x D	483 x 444 x 600 mm	10U, excluding handles
Weight	45 kg.	
RF Connectors, In / Out / Sample	N-Female/ SC-Female / N-Female	Front or rear panel
Gate Control	BNC Female	Front panel
AC Power / Interface Connector	IEC60320-14 / D-Sub 9-Pins	Rear panel
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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**Advanced Amplifiers**

**AA-48G-4KWP  
SOLID-STATE HIGH PULSE POWER AMPLIFIER**

**AVAILABLE SPECIAL OPTIONS**

<b>Parameter</b>	<b>Specification</b>	<b>Notes</b>
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
<b>Included CPM:</b> Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	9-points standard <sup>4</sup>

<sup>4</sup> Consult with factory if additional points would be required.