

FEATURES

- Designed for EMI/RFI, lab, HIRF/Pulse applications
- Instantaneous L-Band octave bandwidth
- Small form factor rack-mounted system
- Class AB linear Advanced technology design
- 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 SPECIFICATION: 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	1.0 - 2.0 GHz			Peak Pulse	
Power Output @ Peak Pulse	8.0 KW Min				
Input Pulse Characteristics	Width	Duty	PRF	Rise/Fall	Drop
	up to 100 μS	6 % Max	up to 100 KHz	<50ns Typ	<1 dB
Power Gain	69 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	5.0 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 Min			TTL Gate Control	
Harmonics	<-20 dBc Typ			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	200 - 240 VAC, single or three phase			50 - 60Hz	
Power Consumption	3500 W Max			At rated Pout	
Input Power Protection	+10 dBm Max ¹				
Load VSWR Protection	4 : 1: Max ²			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 ³	

3 MIL Spec available for quotation

AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option RI: Rack Cabinet Integration	14U standard rack height	Alternate height TBQ
Option FRS: Forward RF Sample	-70dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-60dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	7-points standard ⁴

4 Consult with factory if additional points would be required.



Advanced Amplifiers

**AA-12G-8KWP
SOLID STATE HIGH PULSE POWER AMPLIFIER**

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	See Outline	13U or 14U in rack
Weight	250 lbs. Nom.	<350 lbs rack integrated
RF Connectors In / Out / Sample	RF Input Type-N Female RF Output SC or 716 Female RF Sample Type-N Female	Front Panel Rear Panel Front Panel
Gate Control	BNC Female	Front Panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
OPTIONAL: 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