

# AA-618G-300 SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

- Designed for EMI/RFI, lab, CW/Pulse and all communication applications
- Small form factor, rack mounted system
- Class A/AB Linear design
- High Power Advanced technology devices
- Instantaneous ultra-wide bandwidth
- Built-in protection circuits, with extensive monitoring
- Local LCD & remote flexible interfaces
- High efficiency, with unprecedented reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output @ Psat	300 Watt Min	CW or Pulse
Power Gain	55 dB Min	0dBm or less for rated Pout
Power Gain Flatness	5 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	45dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	120/208 VAC, 3-Phase	47 - 63 Hz
Power Consumption	4 KW Typ	At rated output
Input Power Protection	+5 dBm Max <sup>1</sup>	
Load VSWR Protection	4 : 1: Max <sup>2</sup>	Foldback @ preset limit
Sample Port Coupling	-60 dBc	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	482 x 355 x 860 mm	8U - excluding handles
Weight	64 Kg.Typ	
RF Connectors In/Out/Sample	N-Female / WRD650 / N-Female	Rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS3102E 22-22P	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
<b>INCLUDED:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (BNC Female on rear)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Safety Interlock, Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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## AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
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	Offset correction entry for +/- 0.2dB accuracy	13-points standard

## OUTLINE DRAWING

