



# AA-618G-100 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all single channel modulations standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output @ Psat	80 Watt Min / 100 Watt Typ	CW
Power Gain	50 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	39dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	60 dBc Min	Non-harmonic
Operating Voltage	180 - 240 VAC	
Power Consumption	1600 Watt Max	At rated output
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1	<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	5 to 95 %	Non-condensation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	19 x 8.75 x 22.5 inch (430 x 133.3 x 560 mm)	R5U - excluding connectors
Weight	60 lb. (30 Kg.) Max	
RF Connectors In / Out	Hi Freq. SMA F / WG	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control GAIN, V & I, TEMP	Full feature controller is not available	

### OUTLINE DRAWING

