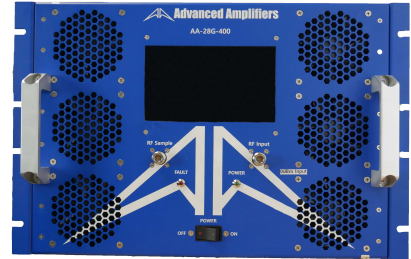


AA-28G-400 SOLID STATE HIGH POWER AMPLIFIER



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 | 2.0 - 8.0 GHz | |
| Power Output @ Psat | 400 Watt Min / 500 Watt Typ | CW or Pulse |
| Power Output @ P1dB | >200 Watt Typ | 250W Nom |
| Power Gain | 56 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 | 46dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics | -20 dBc Typ | At rated output |
| Spurious | -60 dBc Max | Non-harmonic |
| Operating Voltage | 180 - 240 VAC | 47 - 63 Hz |
| Power Consumption | 6 KW Max | At rated output |
| Input Power Protection | +10 dBm Max ¹ | |
| Load VSWR Protection | 4 : 1: Max ² | Foldback @ preset limit |
| Sample Port Coupling (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 | |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|---|---|-------------------------------------|
| Dimensions W x H x D | 482 x 310 x 750 mm | 7U, excluding handles |
| Weight | 47 Kg.Typ | |
| RF Connectors In/Out/Sample | N-Female / SC-Female / N-Female | Front or 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 | |
| STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (INT) | Ethernet RJ-45 TCP/IP, RS422/485, USB GPIB Interface Open=STBY/Short=RFON | IEEE rear panel BNC-F rear panel |

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OUTLINE DRAWING

