

### 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: 50Ω, 25°C

| Parameter                       | Specification           | Notes                       |
|---------------------------------|-------------------------|-----------------------------|
| Operating Frequency Range       | 0.5 - 2.0 GHz           |                             |
| Power Output @ Psat             | 100 Watt Min            | CW or Pulse                 |
| Power Gain                      | 50 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 interface   |
| Input Return Loss               | -10 dB Max              |                             |
| 2-Tone Intermodulation (IMD)    | -30 dBc Typ             | 40dBm/Tone, Δ = 1MHz        |
| Harmonics                       | -20 dBc Typ             | At rated output             |
| Non-Harmonics Spurious          | -60dBc Max              | Non-harmonic                |
| Operating Voltage               | 100 - 240 VAC           | 47 - 63Hz                   |
| Power Consumption               | 1000 Watt Max           | At rated output             |
| Input Power Protection          | +8 dBm Max <sup>1</sup> |                             |
| Load VSWR Protection            | 4 : 1: Max <sup>2</sup> | Foldback @ preset limit     |
| Sample Port Coupling (optional) | -50 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                                                                                                           | 481 x 133.3 x 560 mm                                                                     | 3U, excluding handles               |
| Weight                                                                                                                         | 20 kg.                                                                                   |                                     |
| RF Conn. In / Out / Sample (optional)                                                                                          | Type-N Female                                                                            | Front or rear panel                 |
| Interface Connector                                                                                                            | 9-Pin D-Sub                                                                              | Rear panel                          |
| AC Power                                                                                                                       | IEC 60320-C14                                                                            | Or equivalent                       |
| Cooling                                                                                                                        | Built in Fan Cooling                                                                     | Variable speed                      |
| <b>OPTIONAL:</b> Digital Monitor & Control (DMC)<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP,<br>Optional Safety Interlock (INT) | Ethernet RJ-45 TCP/IP, RS422/485, USB<br>Optional GPIB Interface<br>Open=STBY/Short=RFON | IEEE rear panel<br>BNC-F rear panel |

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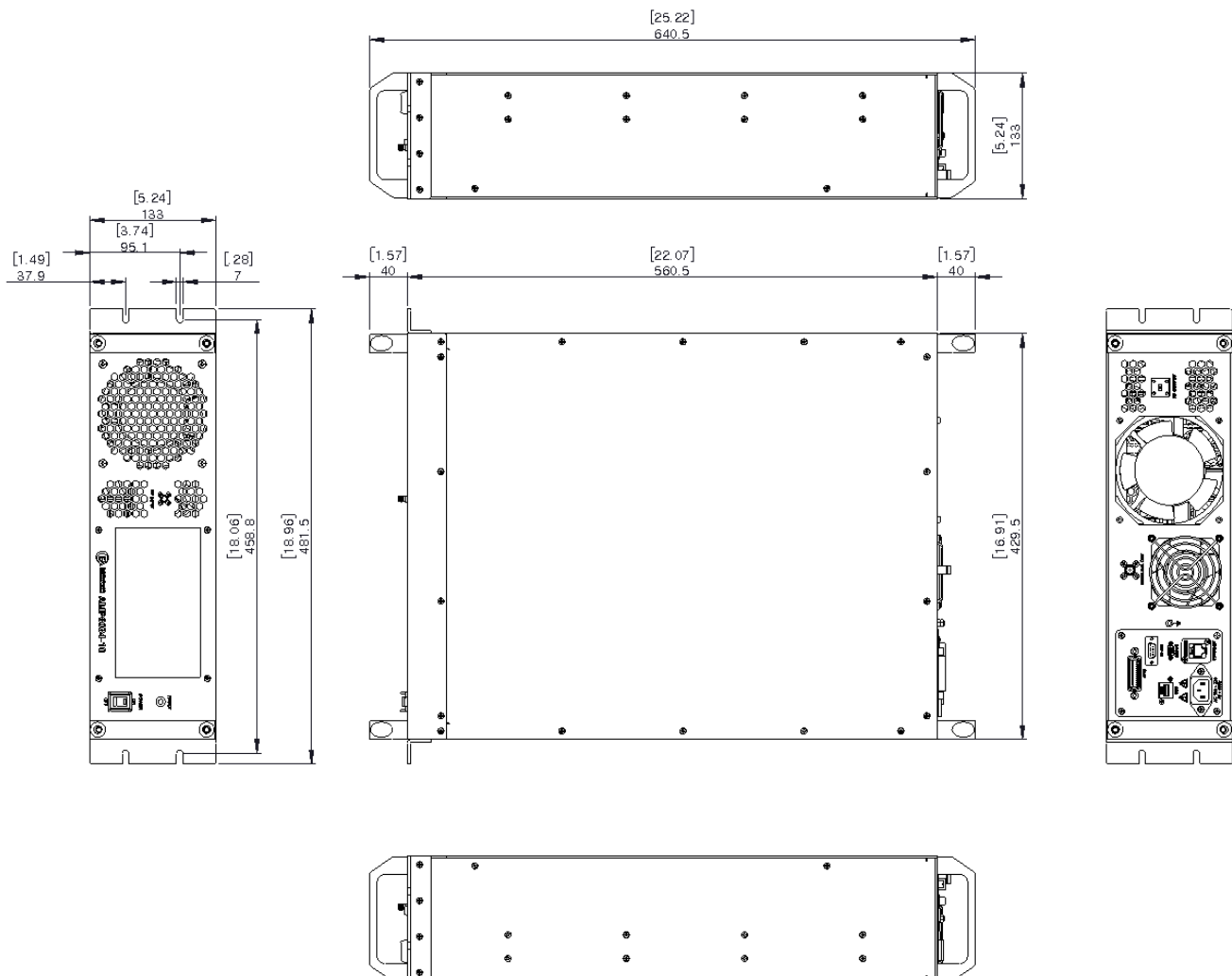
# AMP2068-2 SOLID STATE HIGH POWER AMPLIFIER

## AVAILABLE SPECIAL OPTIONS

| Parameter                                                                         | Specification                                  | Notes                          |
|-----------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|
| Option FRS: Forward RF Sample                                                     | -50dB, 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<br>(With purchase of Option DMC) | Offset correction entry for +/- 0.2dB accuracy | 7-points standard <sup>4</sup> |

<sup>4</sup> Consult the factory if additional points are required.

## OUTLINE DRAWING SHOWN WITH LCD DIGITAL CONTROLLER 3U



**OUTLINE DRAWING**  
BASIC UNIT SHOWN WITH MANUAL GAIN ADJUSTMENT 3U

