

## AMP2025 SOLID STATE HIGH POWER AMPLIFIER

### FEATURES

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



### ELECTRICAL SPECIFICATIONS

| Parameter                    | Specification  | Notes                              |
|------------------------------|----------------|------------------------------------|
| Operating Frequency Range    | 1.0 - 2.0 GHz  |                                    |
| Power Output                 | 300W Min       | CW                                 |
| Power Gain                   | 55 dB Min      |                                    |
| Power Gain Flatness          | 3.0 dB p-p Max | Constant input power               |
| Input Return Loss            | 10 dB Min      | Relative to 50 Ohm                 |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ    | 45dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | >20 dBc Typ    | At rated output power              |
| Non Harmonics Spurious       | 60dBc Min      |                                    |
| Operating Voltage            | 100 - 240 VAC  |                                    |
| Power Consumption            | 1000 Watt      | At rated Pout                      |
| Max Input Power              | +10 dBm        | Without damage                     |
| Load VSWR Protection         | $\infty : 1$   |                                    |

### ENVIRONMENTAL CHARACTERISTICS

| Parameter                     | Specification | Notes          |
|-------------------------------|---------------|----------------|
| Operating Ambient Temperature | 0 to +50 °C   |                |
| Storage Temperature           | -40 to +85 °C |                |
| Relative Humidity             | 5 to 95 %     | Non Condensing |

### MECHANICAL SPECIFICATIONS

| Parameter                      | Specification               | Notes          |
|--------------------------------|-----------------------------|----------------|
| Dimensions W x H x D           | 430 x 133 x 560 mm          | 3U             |
| Weight                         | 20 kg.                      |                |
| RF Connectors In / Out         | Type-N Female               |                |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub |                |
| Cooling                        | Built in Fan Cooling        | Variable speed |
|                                |                             |                |

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## OUTLINE DRAWING

