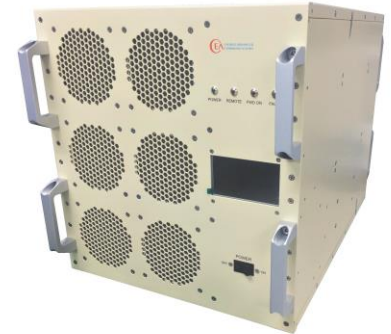




# AMP2011D SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Rack mounted system
- Designed for broadband EMI/RFI, Lab, Communication applications
- Suitable for all single channel modulations standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

| Parameter                          | Specification  | Notes                     |
|------------------------------------|----------------|---------------------------|
| Operating Frequency Range          | 20 - 100 MHz   |                           |
| Power Output @ Saturation          | 3000 Watt Min  | CW                        |
| Power Output @ P1dB                | 2000 Watt Typ  |                           |
| Power Gain                         | 64 dB Min      | Pin=0dBm for nominal Pout |
| Power Gain Flatness                | 3.0 dB p-p Max |                           |
| Input Return Loss                  | -10 dB Max     | Relative to 50 Ohm        |
| 2-Tone Intermodulation (IMD / IP3) | -30 dBc Min    | 50dBm/Tone, Δ = 1MHz      |
| Noise Figure                       | 10 dB Max      |                           |
| Harmonics                          | -20 dBc Max    |                           |
| Spurious                           | -60 dBc Max    | Non-harmonic              |
| Operating Voltage                  | 180 - 240 VAC  | Single Phase - 50/60Hz    |
| Power Consumption                  | 10 KW Max      | At rated Pout             |
| Input Power Protection             | +3 dBm Max     | <10 Sec without damage    |
| Load VSWR Protection               | 6 : 1 Max      | <1 minute at rated Pout   |

## ENVIRONMENTAL CHARACTERISTICS

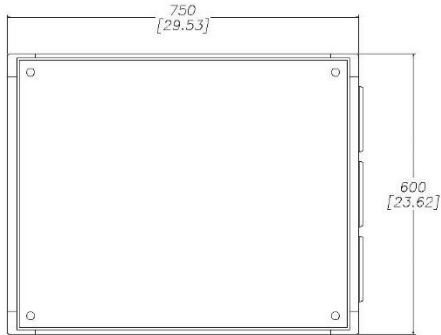
| Parameter                     | Specification | Notes          |
|-------------------------------|---------------|----------------|
| Operating Ambient Temperature | 0 to +50 °C   |                |
| Storage Temperature           | -40 to +85 °C |                |
| Relative Humidity             |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

## MECHANICAL SPECIFICATIONS

| Parameter  | Specification  | Notes                   |
|--|--|-------------------------|
| Dimensions W x H x D   | 18U  | Rack integrated cabinet |
| Weight   | 150 Kg.  |                         |
| RF Connectors In/Out   | Type-N Female / 7/16   | Front or rear Panel     |
| AC Power / Monitoring Connectors   | IEC 60320-C14 / 9 Pin D-Sub  | Or equivalent           |
| Safety Interlock Connector   | 15-Pin Subminiature D-Sub  |                         |
| Cooling  | Built in Fan Cooling   | Variable speed          |
| <b>OPTIONAL:</b> Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS-232, USB<br>Optional GPIB/IEEE Interface |                         |

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## TYPICAL OUTLINE DRAWING



- \* UNIT : mm / [inch]
- \* Rack Size : 18U
- \* System : 6U + 5U + 6U

