# HD32306
# SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

**FEATURES**

Rack mounted system
Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Local LCD & remote flexible interfaces
Designed for EMI/RFI, lab, and general communication applications
High reliability and ruggedness



**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 8.0 - 18.0 GHz | |
| Power Output @ Psat | 200 Watt Min | CW |
| Power Gain | 53 dB Min | Nominal Pin = 0dBm |
| Power Gain Flatness | 5 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 | 43dBm/Tone, Δ = 1MHz |
| Harmonics | <-20 dBc Typ | At rated output |
| Spurious | -60 dBc Max | Non-harmonic |
| Operating Voltage | 180 - 240 VAC | |
| Power Consumption | 3800 Watt Max | At rated output |
| Input Power Protection | +3 dBm Max | <10 Sec without damage |
| Load VSWR Protection | 5 : 1 Max | <1 minute at rated min 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**

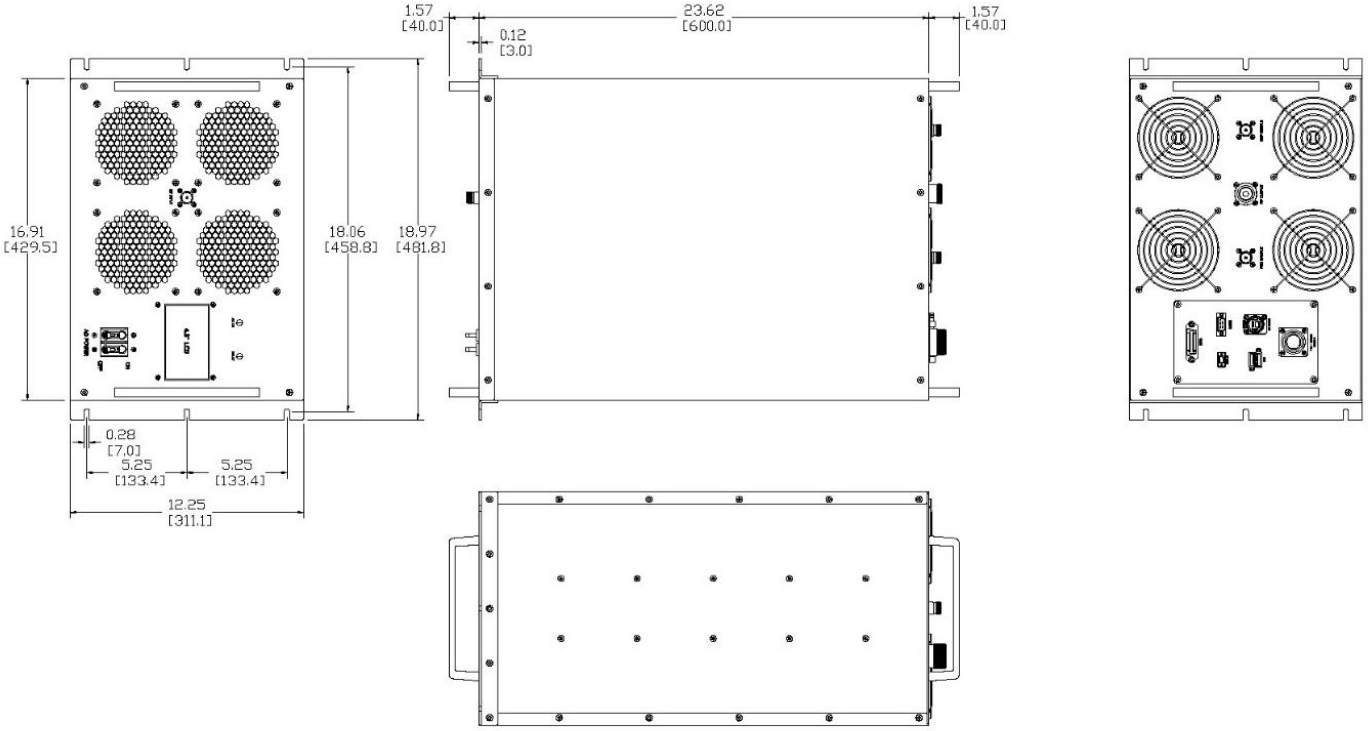
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 7U Rack Mounted Chassis | 7U |
| Weight | 40 Kg. Nom | |
| RF Connectors In/Out | Precision N Female / WRD750 | |
| AC Power | IEC 60320-C14 / 9-Pin D-Sub | Or equivalent |
| Cooling | Built in Fan Cooling | Variable speed |
| **EMI SERIES:** Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | Remote Bluetooth application |

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**OUTLINE DRAWING**




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