# HD32096
# SOLID STATE HIGH POWER PULSE AMPLIFIER

HD Communications Corp.

**FEATURES**

Rack mounted system
Class AB linear GaN design
Instantaneous bandwidth
Suitable for S-Band long pulse applications
Built-in protection circuits
High reliability and ruggedness

**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | | | Notes | |
|---|---|---|---|---|---|
| Operating Frequency Range | 3.0 - 3.5 GHz | | | | |
| Power Output @ Saturation | 750 - 800 Watts Typ | | | Pulse | |
| Power Gain | 58 dB Min | | | 0dBm for normal operation | |
| Pulse Characteristics | **Width** | **Duty** | **Droop** | **Rise/Fall** | |
| | 1.5mS Max | 35 % Max | 1 dB Max | <200nS | |
| Power Gain Flatness | 2.0 dB p-p Max | | | Constant input power | |
| Input Return Loss | 10 dB Min | | | Relative to 50 Ohm | |
| Harmonics | -20 dBc Typ | | | At rated output power | |
| Non Harmonics Spurious | -60 dBc Max | | | | |
| Operating Voltage | 180 - 240 VAC | | | | |
| Power Consumption | 2 KW Avg. Max | | | At rated Pout | |
| Max Input Power Protection | +5 dBm | | | < 10Sec without damage | |
| Load VSWR Protection | 5 : 1 Max | | | At rated Pout for <1 minute | |

**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 |

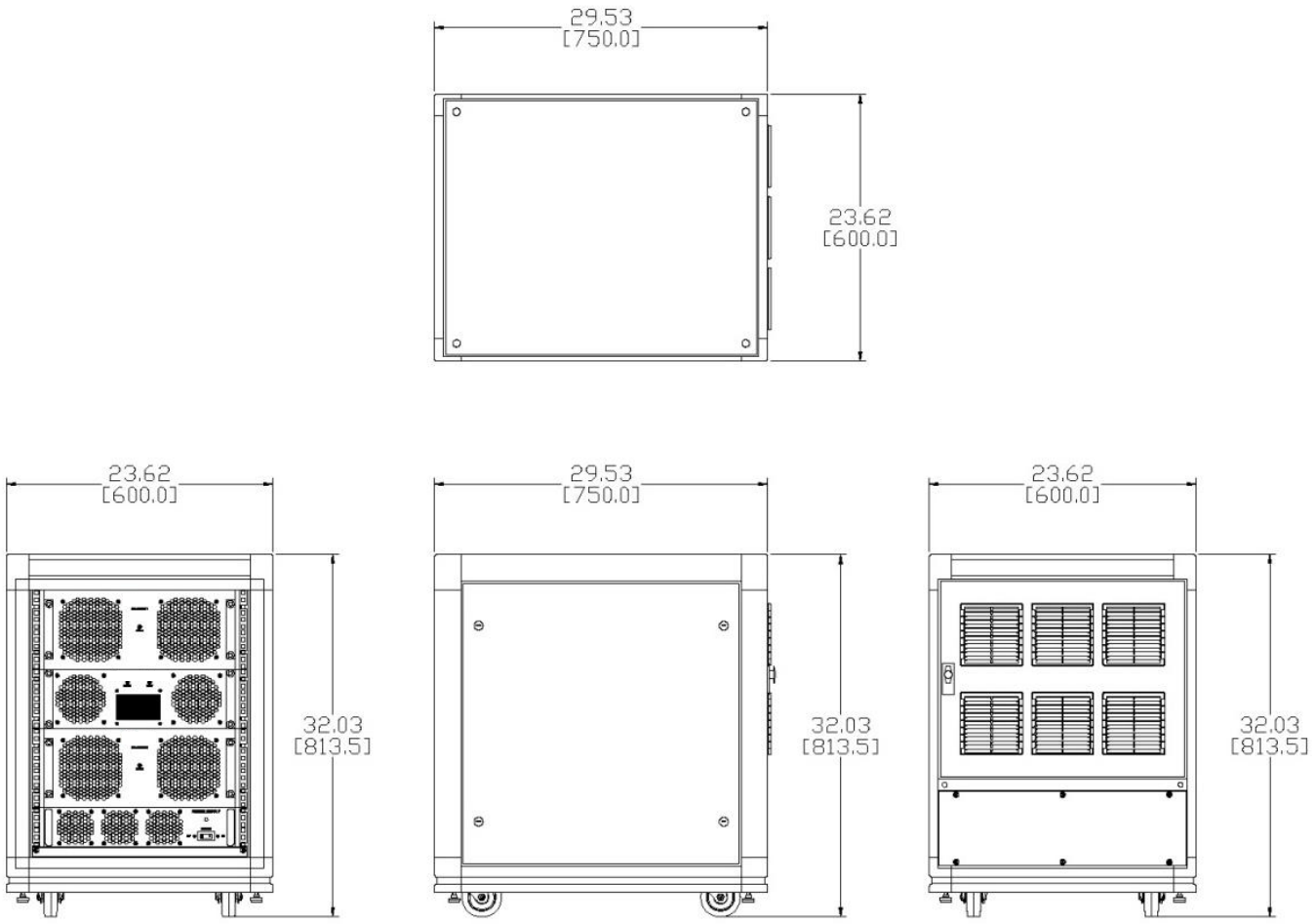
**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 13U Rack Mount Cabinet | See outline drawing |
| Weight | TBD | |
| RF Connectors In / Out | Type-N Female / 7/16 DIN | Front Panel Standard |
| AC Power / Interface | IEC 60320-C14 / 9-Pin D-Sub | Or equivalent |
| Pulse Gating | Optional | 2µS delay |
| Cooling | Built in Fan Cooling | Variable speed |
| **OPTIONAL**: Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface | Remote Bluetooth application |

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**OUTLINE DRAWING**




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