# HD34050
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Designed for EMI/RFI, lab, CW/Pulse and all EW 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 | 26.5 - 40.0 GHz | |
| Power Output @ Psat | 200 Watt Min / 250W Typ | CW or Pulse |
| Power Output @ P1dB | 40 Watt Typ | |
| Power Gain | 53 dB Min | 0dBm or less for rated Pout |
| Power Gain Flatness | 4.0 dB p-p Typ | Constant input power |
| Gain Adjustment Range | 20 dB Min | Local or remote capable |
| Input / Output Return Loss | -10 dB Max | |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 43dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Max | At rated output power |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 120/208 VAC, 3-Ph, 47 - 63 Hz | Opt: 230/400VAC, 3-Ph |
| Power Consumption | 7000 Watt Max | At rated Pout |
| Input Power Protection | +3 dBm Max[1] | |
| Load VSWR Protection | 4 : 1: Max[2] | Foldback @ preset limit |
| Sample Port (optional) | -50 dB | 2.9mm K-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[3] | |

3 MIL Spec available for quotation

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 600 x 960 x 1300 mm | 18U, cabinet |
| Weight | 250 Kg. Typ | |
| RF Conn. In / Out / Sample (optional) | (2.92) K-Female / WR28 / (2.92) K-Female | Rear panel |
| Interface Connector | 9-Pin D-Sub | Rear panel |
| AC Power | IEC 60320-C14 | Or equivalent |
| Cooling: Built in Quiet-Cool | Close circuit Air-liquid cooling | |
| **OPTIONAL:** 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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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

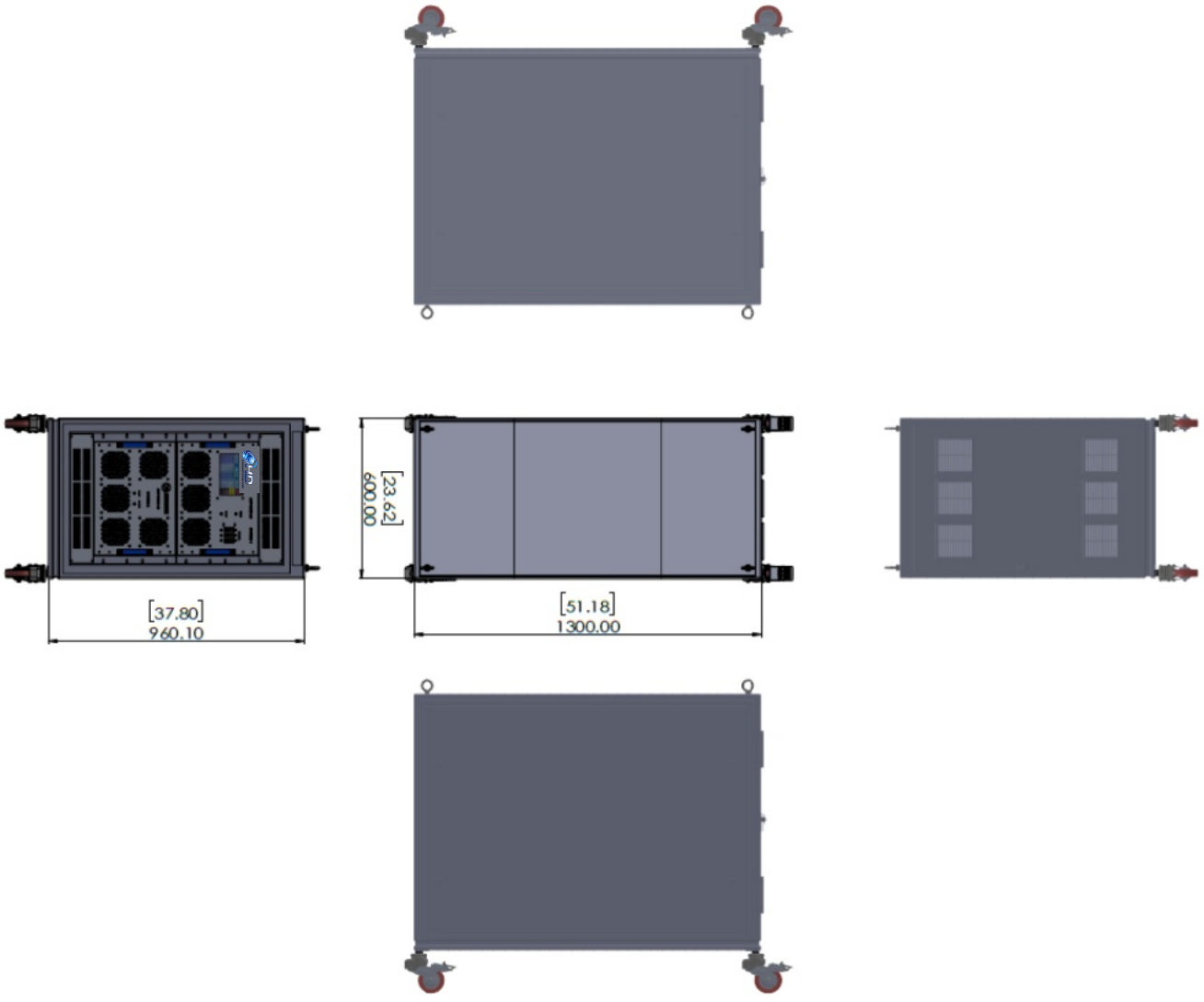
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**AVAILABLE SPECIAL OPTIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Option FRS: Forward RF Sample | -50dB, Type K-Female | Front or rear panel |
| Option RRS: Reflected RF Sample | -40dB, Type K-Female | Front or rear panel |
| Option GPIB: GPIB remote control | GPIB IEEE-488 Remote capability | |
| **Included CPM:** Calibrated Power Monitoring (With purchase of Option DMC) | Offset correction entry for +/- 0.2dB accuracy | 15-points standard[4] |

4 Consult the factory if additional points are required.

## OUTLINE DRAWING
## SHOWN WITH LCD DIGITAL CONTROLLER




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