HD33941
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, and general communication applications
Small form factor, rack mounted system
Class A/AB linear design using high power advanced devices
Instantaneous ultra-wide bandwidth
Suitable for all signal channel modulation applications
Built-in protection circuits with extensive monitoring
Optional all remote-control platforms
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50 Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 6.0 GHz	
Power Output @ Psat	750 Watt Typ	CW or Pulse
Power Output @ P1dB	400 Watt Min	
Power Gain	59 dB Min	0dBm or less for rated Pout
Gain Adjustment Range	20 dB Min	Local or remote capable
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	49dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208, 3-Ph, 47 - 63 Hz	Opt: 230/400VAC, 3-Ph
Power Consumption	7.0 KW Max	At rated Pout
Input Power Protection	+8 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit[2]
Sample Port Coupling (optional)	-60 dB Nom	N-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	Optional 13U Rack	13U system size
Weight	100 kg.	System only
RF Connectors In/Out/Sample	Type-N Female / 7/16 DIN / Type-N-Female	Front or rear panel
AC Power / Interface Connector	MS3102E 24-22P	Or equivalent (rear panel)
Cooling: Built in Quiet-Cool	Close circuit air-liquid cooling	
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

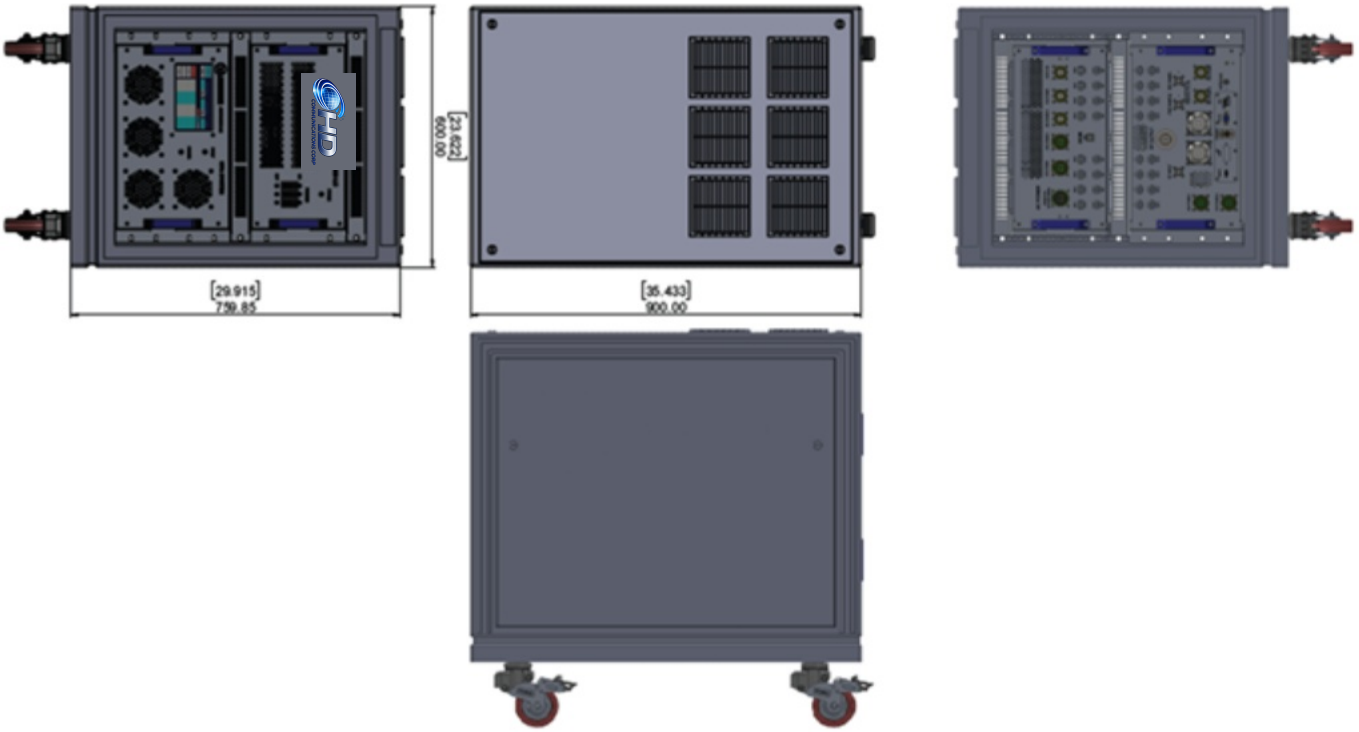
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option RI: Rack Cabinet Integration	Cabinet Height specified at time of order	Option RI: (quoted separate)
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring	Offset correction entry for +/- 0.2dB accuracy	11-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
Shown with optional Rack Cabinet



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