HD35151
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all 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
Extensive monitoring
Local LCD & all remote-control platforms included
High efficiency, with unprecedented reliability and ruggedness

ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Output Power @ Psat	2000 Watt Min	CW or Pulse
Power Output @ P1dB	800 Watt Typ	
Power Gain	63 dB Min	0dBm in or less for rated Pout
Power Gain Flatness	5.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	
Input & Output impedance/Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	53dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208, 3-Ph, 47 - 63 Hz, Qty : 2ea	Opt: 230/400VAC, 3-Ph
Power Consumption	16KW Per-input (32 KW Max total)	At rated output
Input Power Protection	+3 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
Sample Port (optional)	-60 dB	N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage
2 100% of rated power without foldback up to 4:1 mismatch.

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	2 x 36U Rack Cabinet	
Weight	600 lbs. Nom. Per-Cabinet	
RF Safety Interlock	Rear Panel	Contact open Interlock enable
RF Connectors In / Out Forward & Reflected Sample Ports	Type N-F / WRD650 Type N-F	RF Input/Samples Front Panel Std. RF Output Rear Panel Std.
Cooling	Built in forced air	Air entry in front /out rear panel
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

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

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

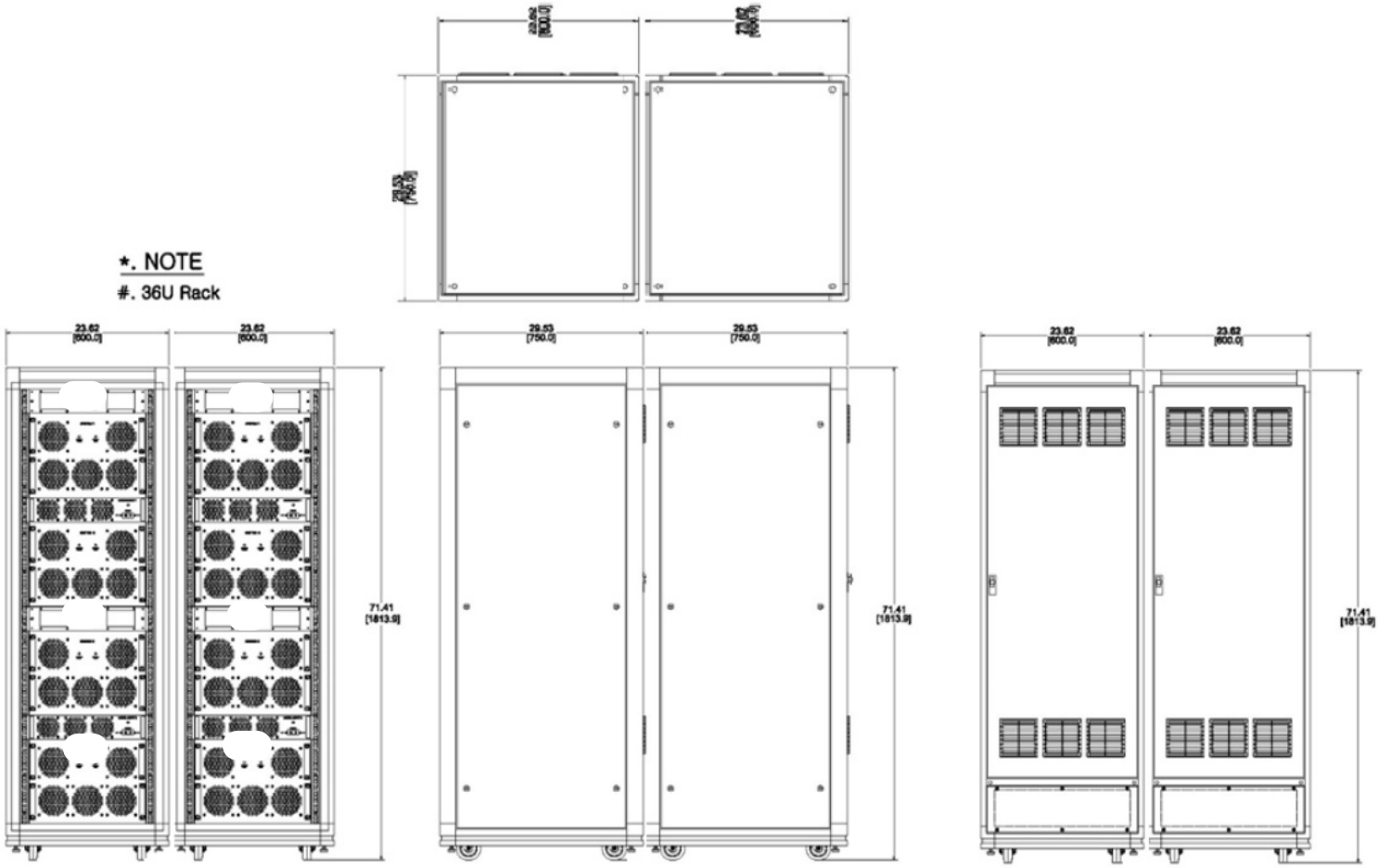
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-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 (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	13-points standard[4]

4 Consult with factory if additional points would be required

OUTLINE DRAWING
36U DOUBLE RACK



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