HD35239
SOLID-STATE HIGH-POWER AMPLIFIER

FEATURES

Designed for broadband EMI/RFI, Lab, and IEC Testing applications
Small form factor, rack mounted system
Class A/AB Linear design
High power advanced technology devices
Designed for Band-V CW & Pulse power applications
Built-in protection circuits, with extensive monitoring
Local LCD & remote flexible interfaces
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 25°C, 50Ω

Parameter	Specification		Notes
Operating Frequency Range	40.0 - 50.0 GHz		
Power Output @ Psat	40.0 - 45.0 GHz	30 Watt Min / 35 Typ	CW or Pulse
	45.0 - 50.0 GHz	20 Watt Min / 30 Typ	
Power Gain	45 dB Min		0dBm or less for rated Pout
Power Gain Flatness	5 dB p-p Typ		Constant input power
Gain Adjustment Range	20 dB Min		Local or remote capable
Input / Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		35dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		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	5000 Watt Max		At rated output
Input Power Protection	+3 dBm Max[1]		
Load VSWR Protection	4 : 1: Max[2]		Foldback @ preset limit
Sample Port Coupling (optional)	-40 dB		Optional - 2.4mm-F

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	421 x 442 x 800 mm	10U, excluding handles
Weight	50 Kg.	
RF Conn. In / Out / Sample (optional)	2.4 mm/WR22 (2.4mm Opt. Sample)	RF Output (Rear panel Std.)
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS Connector	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
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.

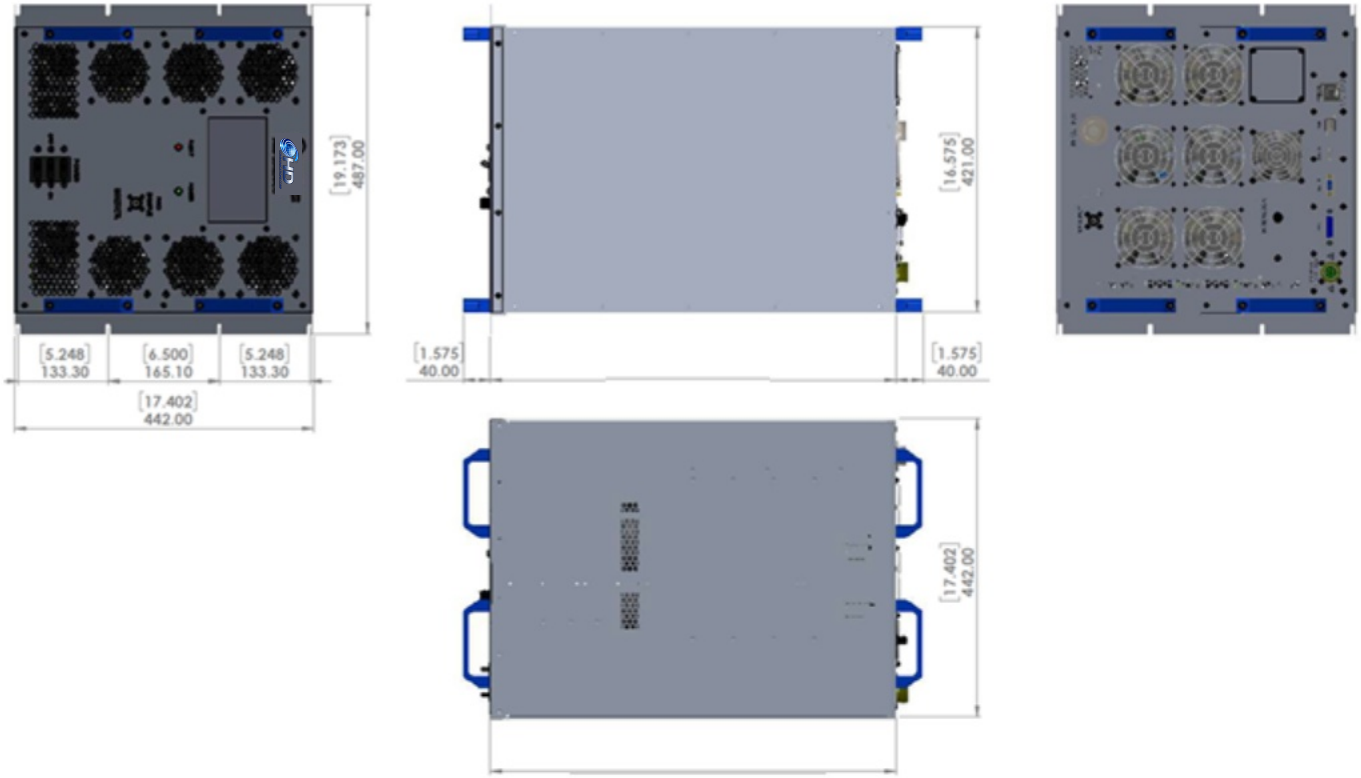
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type 2.4mm-F	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type 2.4mm-F	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	11-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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