HD31009
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, 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	8.0 - 12.0 GHz	
Power Output @ Psat	300 Watt Min	CW or Pulse
Power Gain	55 dB Min	0dBm or less for rated Pout
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	
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	100 - 240 VAC	47 - 63Hz
Power Consumption	3000 Watt Typ	At rated Pout
Input Power Protection	+10 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
Sample Port (optional)	-50 dB	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	430 x 266 x 750 mm	6U, excluding handles
Weight	45 kg. Max	Based on options
RF Connectors In/Out/Sample (optional)	Type-N Female / WR90 / Type-N Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power Connector	IEC 60320-C14	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control[4] FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	 BNC Female on rear panel

4 DMC option may reduce Pout by 1dB.

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

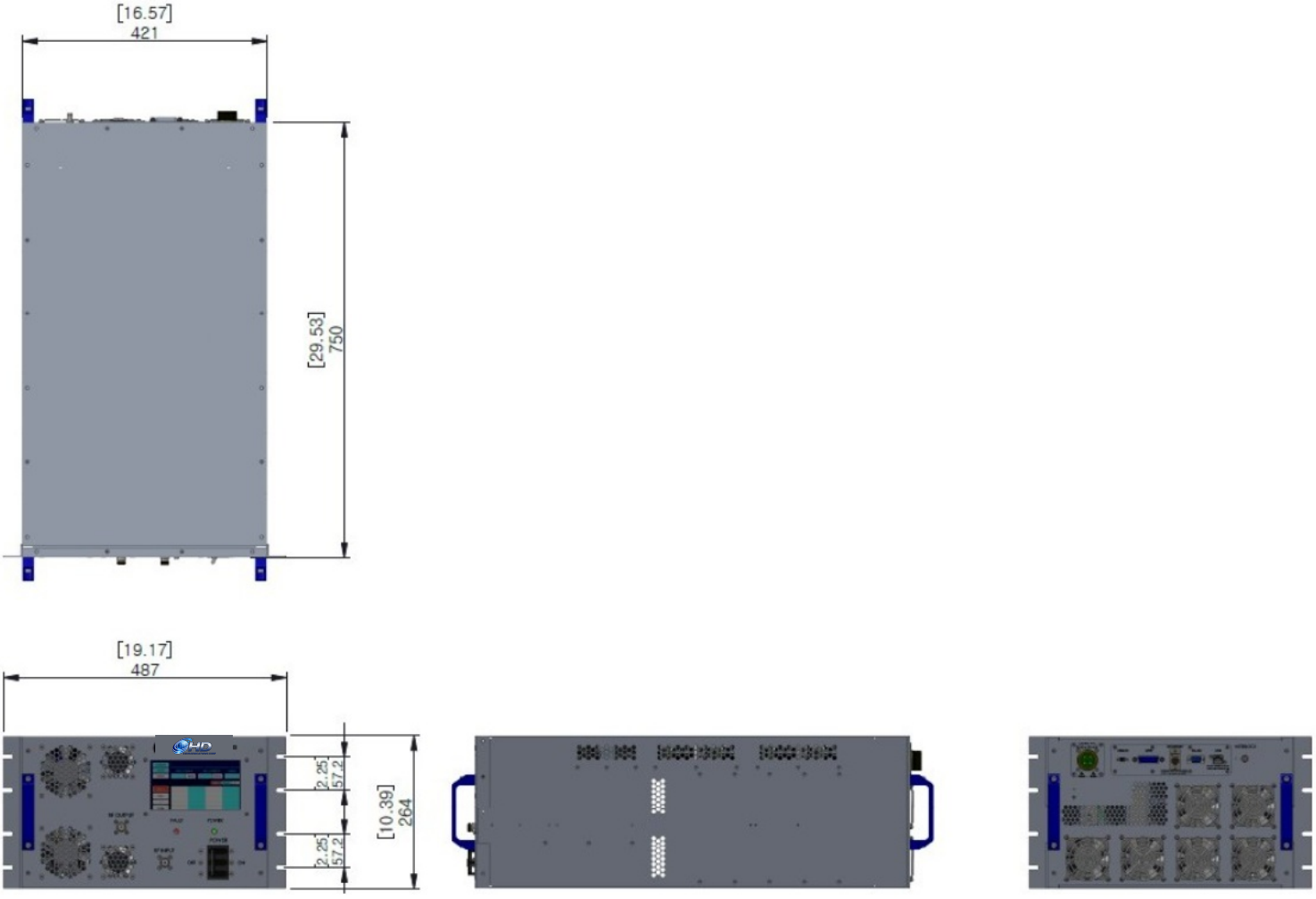
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type N-Female	Front or rear panel
Option ENF: High-Power NF RF Output conn.	End-Launch N-Female High Power	To convert WR90 to NF
Option SRI: SMA Female RF Input	N-Male to SMA-Female Adaptor	Converts Panel N-Female to SMA-F
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	7-points standard[5]
Option LC: Built in Quiet-Cool[6]	Close circuit Air-liquid cooling	

5 Consult the factory if additional points are required.
6 Size & Weight may increase depending on configuration

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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