HD35181
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 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
Band	**Band A**	**Band B**	Band switching @ 15mS Max
Operating Frequency Range	1 - 30 MHz	20 - 1000 MHz	
Power Output @ Psat	500 Watt Min	300 Watt Min	CW or Pulse
Power Output @ P1dB	300 Watt Min	200 Watt Min	
Power Gain	57 dB Min	55 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4 dB p-p Max		Constant input power
Gain Adjustment Range	20 dB Min		Local or remote
Input / Output Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		45dBm/Tone, Δ = 1MHz
Harmonics	-15 dBc Typ		At rated output
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	200 - 240 VAC		50-60Hz
Power Consumption	2000 Watt Max		At rated output
Input Power Protection	+8 dBm Max[1]		
Load VSWR Protection	4 : 1: Max[2]		Foldback @ preset limit
Sample Port Coupling (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	421 x 264 x 750 mm	6U, excluding handles
Weight	35 Kg. Max	
RF Connectors In/Out/Sample (optional)	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC60320-14 / D-Sub 9-Pins	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.

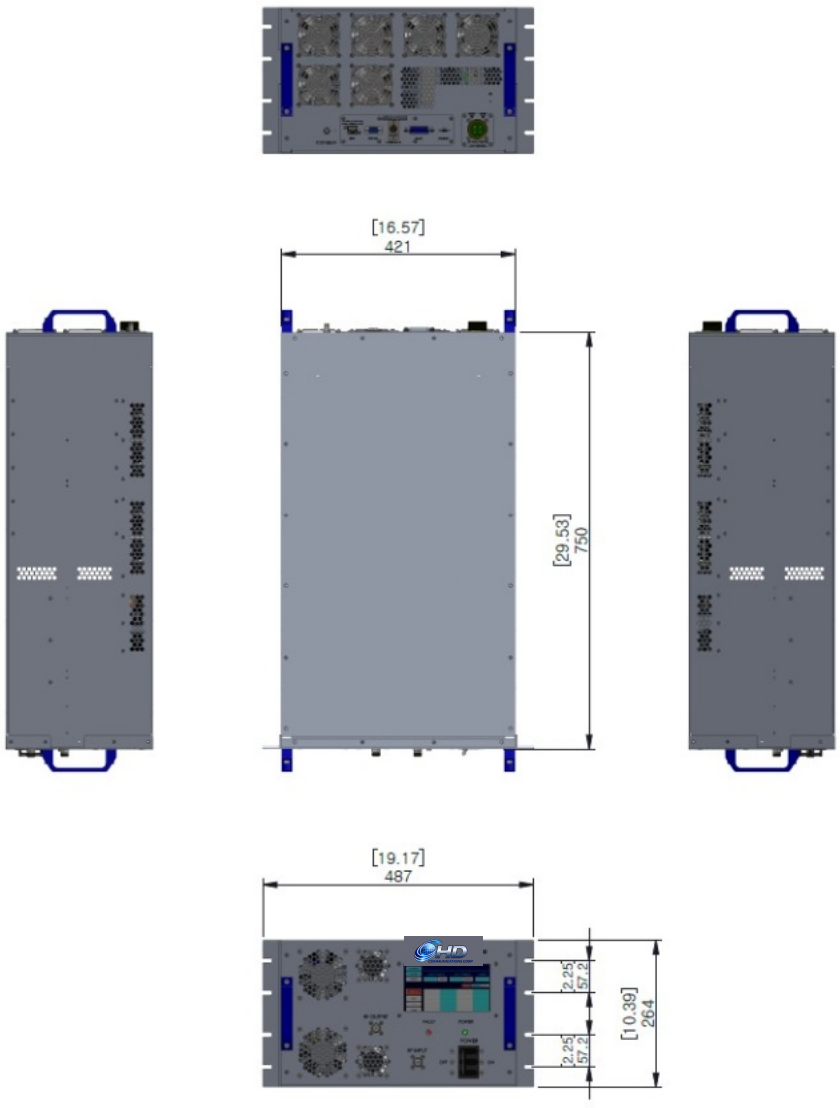
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option 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 Option DMC Purchase)	Offset correction entry for +/- 0.2dB accuracy	8-points standard[4]

4 Consult with the factory if additional points would be required.

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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