HD32824
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for broadband EMI/RFI, Lab, Communication applications
Suitable for all single channel modulation standards, EMC, Automotive
Class A/AB linear advanced technology design
Instantaneous wide bandwidth
Rack mounted cabinet system
Built-in protection circuits
Unprecedented Quiet-Cool Technology
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS : 50 Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	80 - 1000 MHz	
Power Output @ Psat	2000 Watt Min	CW or Pulse
Power Output @ P1dB	1600 Watt Min	
Power Gain	63 dB Min	0dBm or less for rated Pout
Gain Adjustment Range	20 dB Min	Local or remote
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
Output Impedance	50 Ohms Nom	
2-Tone Intermodulation (IMD)	-25 dBc Typ	53dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208, 3-Ph, 47 - 63 Hz	Opt: 230/400VAC, 3-Ph
Power Consumption	18 KW Max	At rated Pout
Input Power Protection	+3 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
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	Alternate height TBQ	22U standard cabinet height
Weight	225 Kg. Nom	
RF Connectors In/Out/Sample (optional)	Type-N F / 7/16-F/ Type-N-F	Front or rear panel
AC Power / Interface	MS style / 9-Pin D-Sub	Or equivalent
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

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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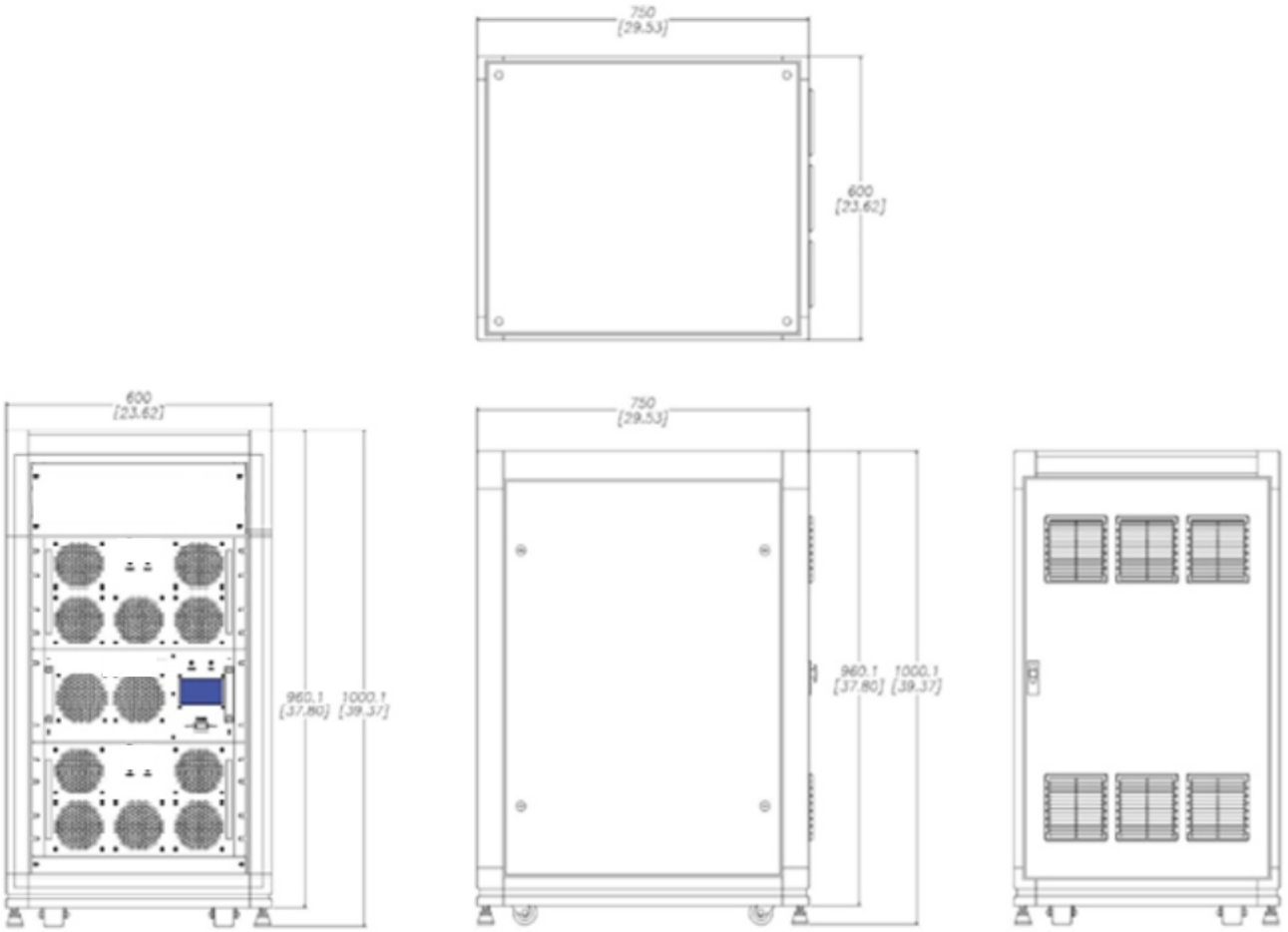
AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option RI: Rack Cabinet Integration	Standard height provided for this amp	Special height quoted separately
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	10-points standard[4]

4 Consult with factory if additional points would be required.

OUTLINE DRAWING

Larger rack shown with optional blank panel

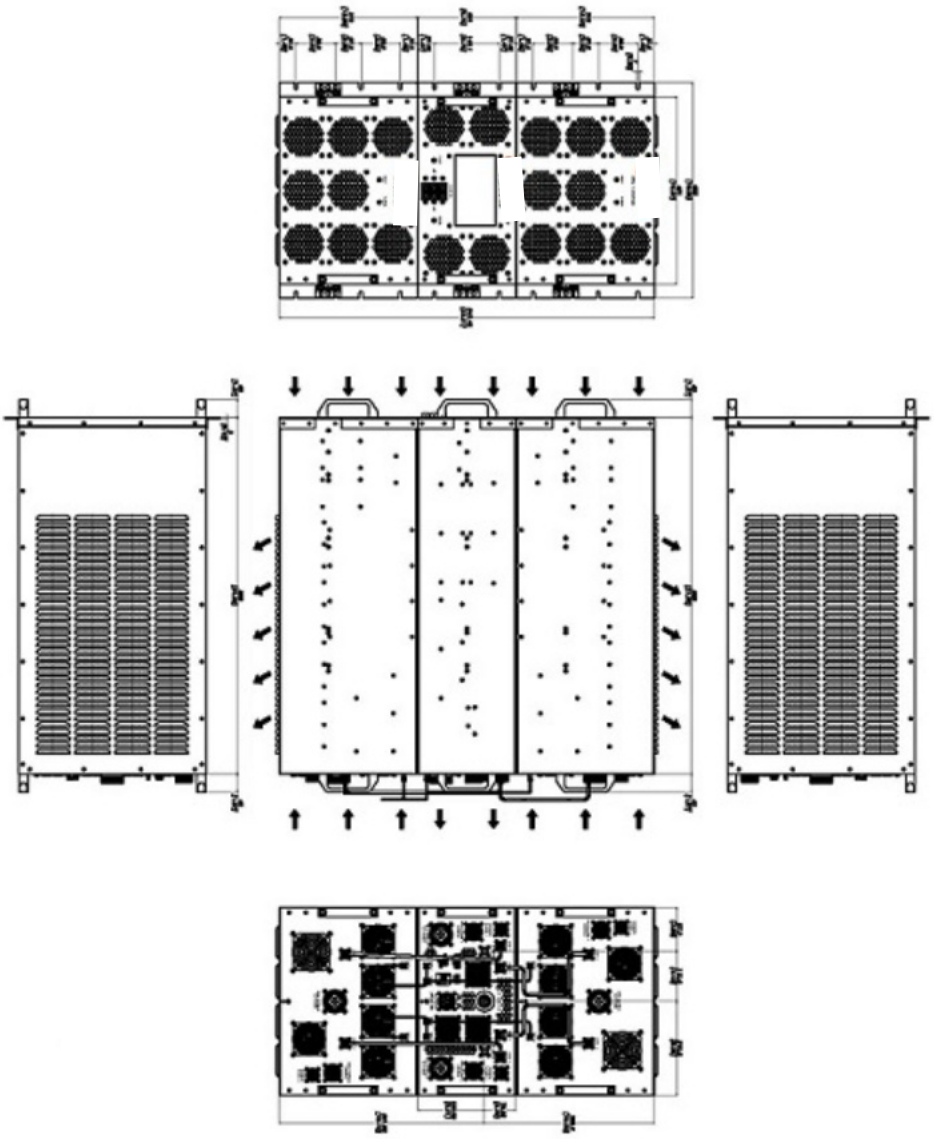


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OUTLINE DRAWING

System Outline(7U + 5U + 7U)



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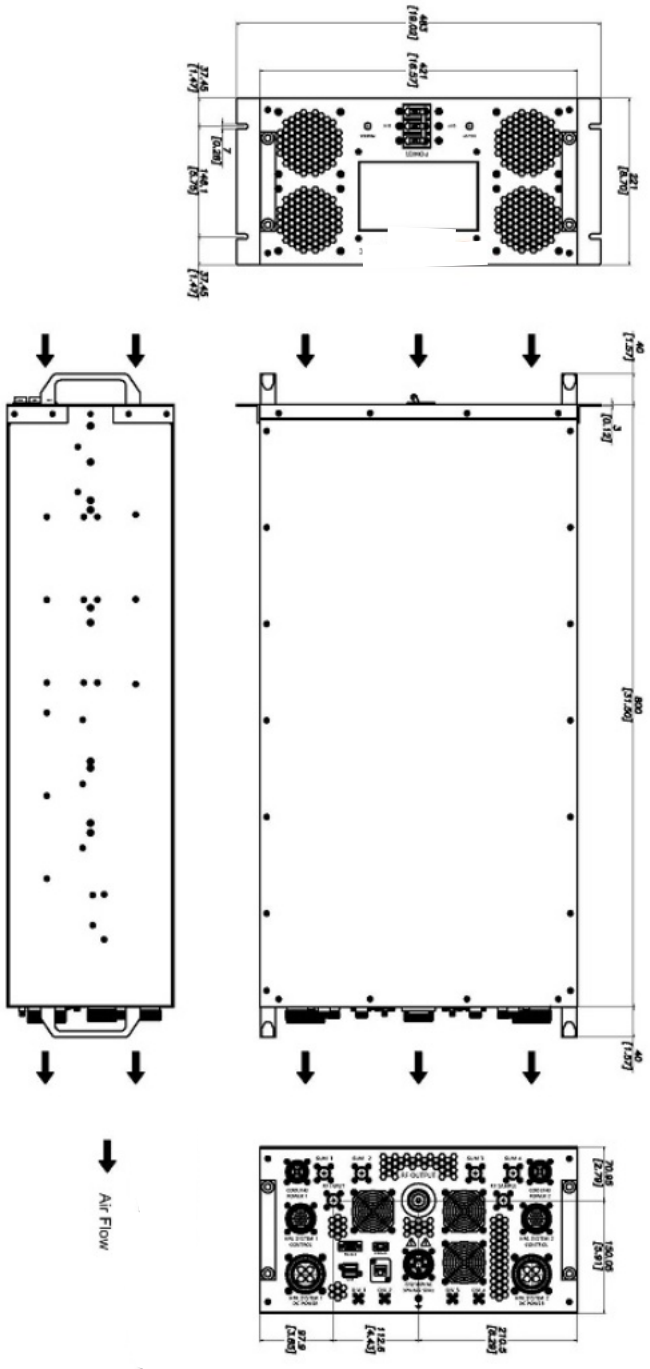
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OUTLINE DRAWING

Main System - 5U



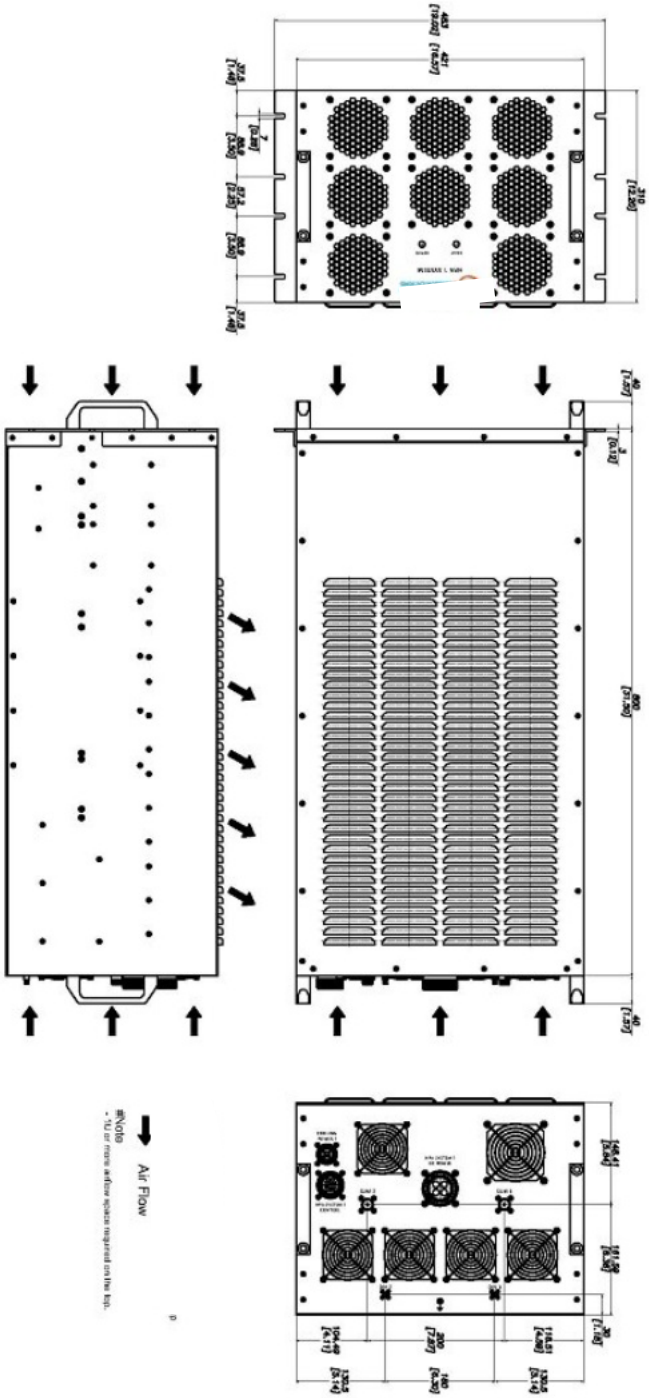
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OUTLINE DRAWING

HPA 1 System - 7U



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