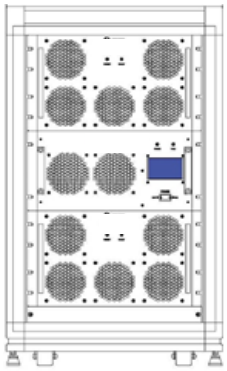
HD Communications Corp.

HD32824
SOLID STATE HIGH POWER AMPLIFIER



FEATURES

Class A-AB linear LDMOS design
Instantaneous wide bandwidth
Rack mounted cabinet system
Designed for broadband EMI/RFI, Lab, Communication applications
Suitable for all single channel modulation standards, EMC, Automotive
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 Typ	CW & Pulse
Power Output @P1dB	1500 Watt Min	
Power Gain	63 dB Min	
Gain Adjustment Range	25 dB Min	30 dB Typ
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	-10 dB Max	<1.5:1 Typ
Output Impedance	50 Ohms Nom	
Mismatch Tolerance	The output maintains 100% of rated power under any impedance mismatch and will not damage the amplifier up to 6:1 load VSWR	
2-Tone Intermodulation (IMD / IP3)	-30 dBc Min	53dBm/Tone, Δ = 1MHz
Noise Figure	8 dB Max	At full gain, 6 dB Typ
Harmonics	-20 dBc Max	
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180- 240 VAC, 3-Phase	
Power Consumption	10 KW Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	6 : 1 Max	Auto shutdown @ >6:1 load VSWR

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

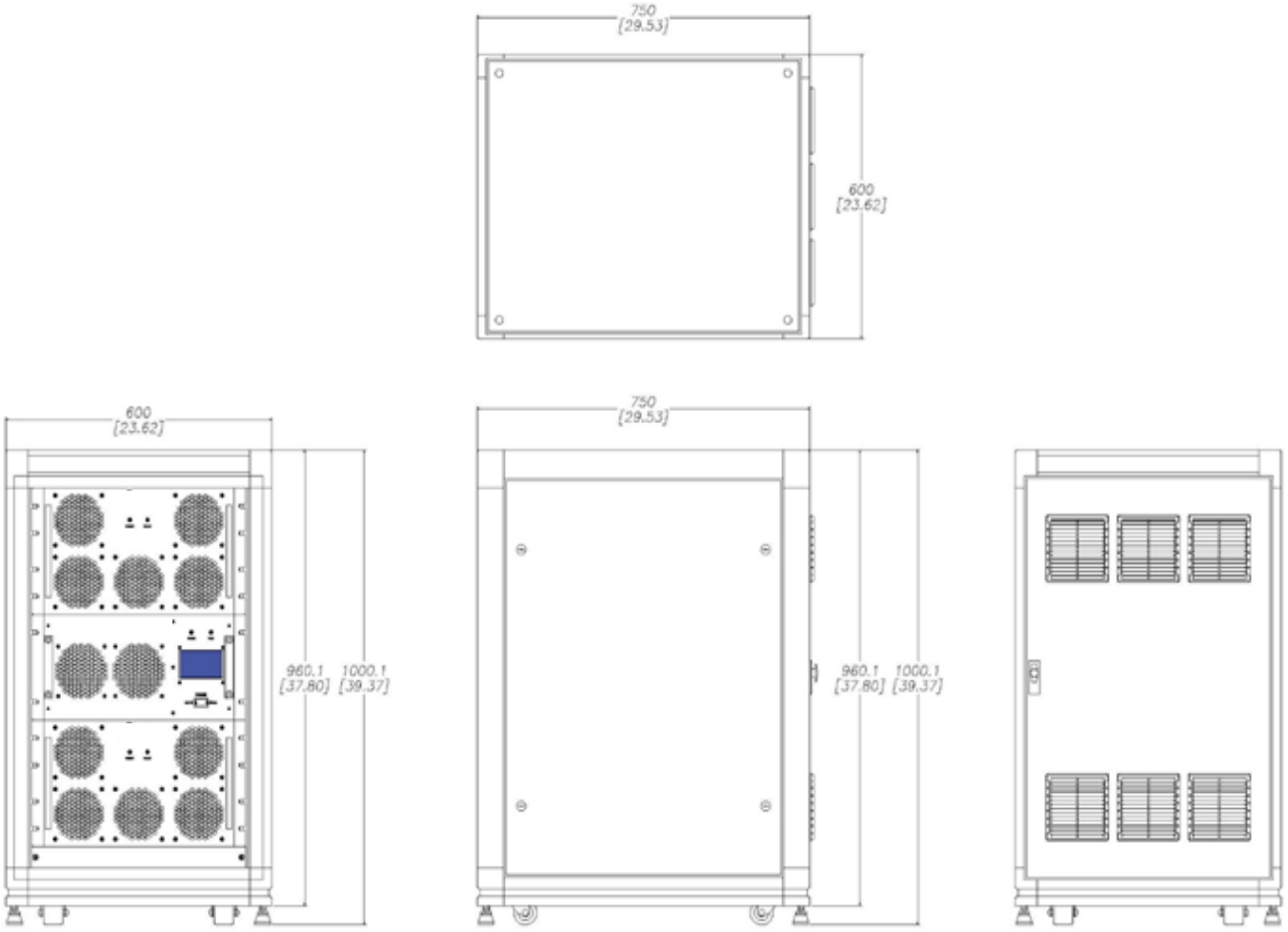
Parameter	Specification	Notes
Dimensions W x H x D	2 x R7U + R5U	Cabinet with Rack drawers
Weight	500 lbs. Nom	
RF Connectors In/Out/Sample	Type-N F / 7/16-F/ Type-N-F	Front or rear panel
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in quiet cool hybrid fan cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING



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