HD30829
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class A/AB linear LDMOS design
Rack mounted system
Instantaneous wide bandwidth
Designed for broadband EMI/RFI, Lab, Comm. and EW applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruaaedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification	Notes
Operating Frequency Range	100 - 500 MHz	
Power Output @ Psat (CW)	1000 Watt Min	<0dBm for rated Pout
Power Gain	60 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote capable
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	-15 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	180 - 240 VAC	50 - 60 Hz
Power Consumption	5 KW Max	At rated output
Input Power Protection	+3 dBm Max[1]	
Load VSWR Protection	5 : 1: Max[2]	Foldback @ preset limit

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 ºC	
Storage Temperature	-40 to +85 ºC	
Relative Humidity	5 to 95 %	Non Condensing
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

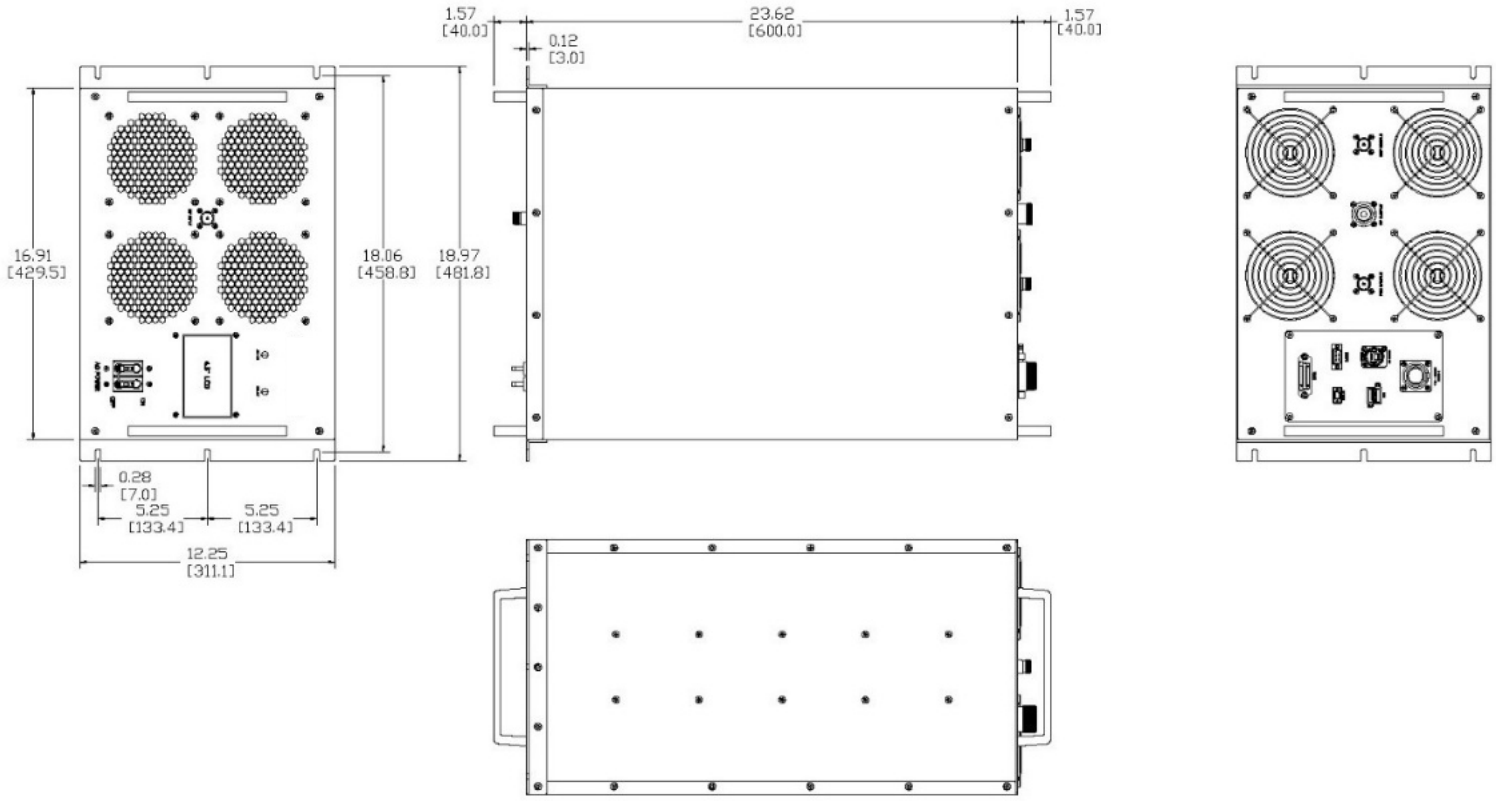
Parameter	Specification	Notes
Dimensions W x H x D	421 x 308 x 600 mm	7U, excluding handles
Weight	40 Kg. Nom	
RF Connectors In/Out	Type-N / DIN Female	Front or rear panel
AC Power	MS Type	Or equivalent
I/O Connector	9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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

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OUTLINE DRAWING



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