HD31122
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
Small form factor, Bench Top system
Class A/AB linear advanced technology design
Suitable for all single channel modulation standards
Instantaneous ultra-broad bandwidth
Built-in protection circuits
Universal voltage AC power supply
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25?C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 20.0 GHz	
Power Output @ Psat	3 Watt Min / 4 Watt Typ	CW
Power Output @ P1dB	1 Watt Typ	
Power Gain	36 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	
2-Tone Intermodulation (IMD)	-30 dBc Typ	26dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47 - 63 Hz
Power Consumption	50 Watt Max	At rated output
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1: Max	<1 min @ 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	

MECHANICAL SPECIFICATIONS

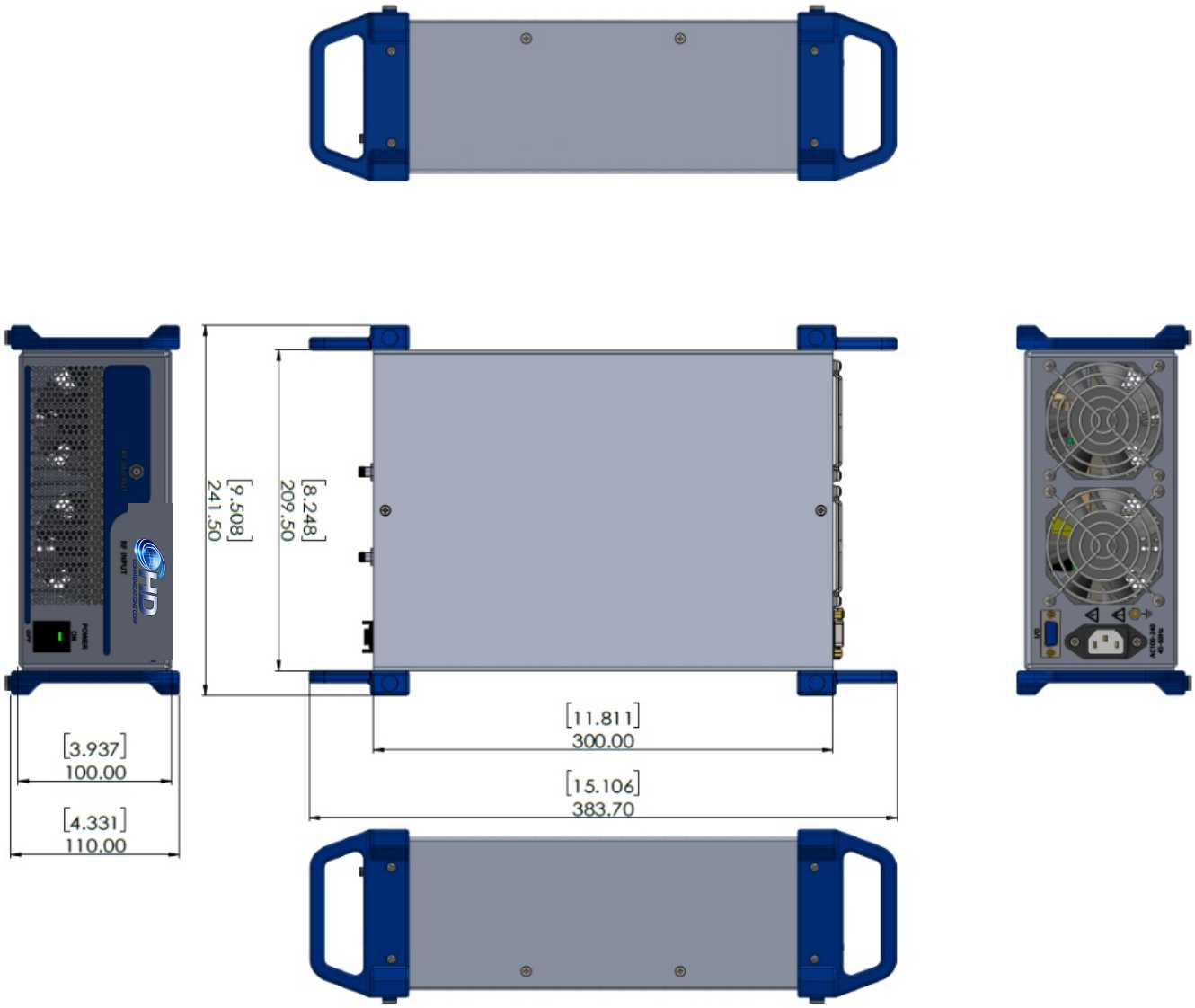
Parameter	Specification	Notes
Dimensions W x H x D (Benchtop)	210 x 100 x 300 mm 242 x 110 x 384 mm	Excluding brackets Including brackets
Weight	8 kg.	
RF Connectors In/Out	Type-SMA Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan 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 Open=STBY/Short=RFON	Available in a 3U chassis BNC Female on rear panel

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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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