HD35248
SOLID-STATE HIGH-POWER PULSE AMPLIFIER

FEATURES

Designed for Ruggedize Hi-Rel Pulse applications
Small form factor rack-mounted system
Class AB linear advanced technology design
Wideband high-power applications
Built-in protection circuits with monitoring
Remote flexible interfaces
High efficiency with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50 Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	420 - 440 MHz				
Power Output @ Pulse	2.5 KW Min / 3.0 KW Typ			Peak Pulse	
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 150 µS	30 % Max	up to 100 KHz	<50 nS Typ	<1 dB
Power Gain	65 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	+/-1.0 dB p-p Max			Constant input power	
Gain Adjustment Range	20 dB Min			Local or remote capable	
Input Return Loss	-10 dB Max				
Output Power On/Off Ratio	-80 dB Min			TTL Gate Control	
Harmonics	-20 dBc Max			At rated output	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	100 - 240 VAC			47-63 Hz	
Power Consumption	2000 Watt Max / 1500 Watt Typ			@ Max duty/Max P-out	
Input Power Protection	+5 dBm Max[1]				
Load VSWR Protection	6 : 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 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	5000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D (No display with DMC)	430 x 88 x 560 mm	2U, excluding handles
Dimensions W x H x D (with Option DMC)	430 x 133 x 560 mm	3U, excluding handles
Weight	(2U/15 kg.) (3U/20kg.)	
RF Conn. Input/Output /Sample (optional)	Type N-F / Type N-F / Type N-F	Front or rear panel
Gate Control	BNC Female	Front or Rear panel
AC Power Connector	IEC 60320-C14	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control[4] FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	 BNC Female on rear panel

4-consult factory if forward & reflected monitoring are required via the remote GUI

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

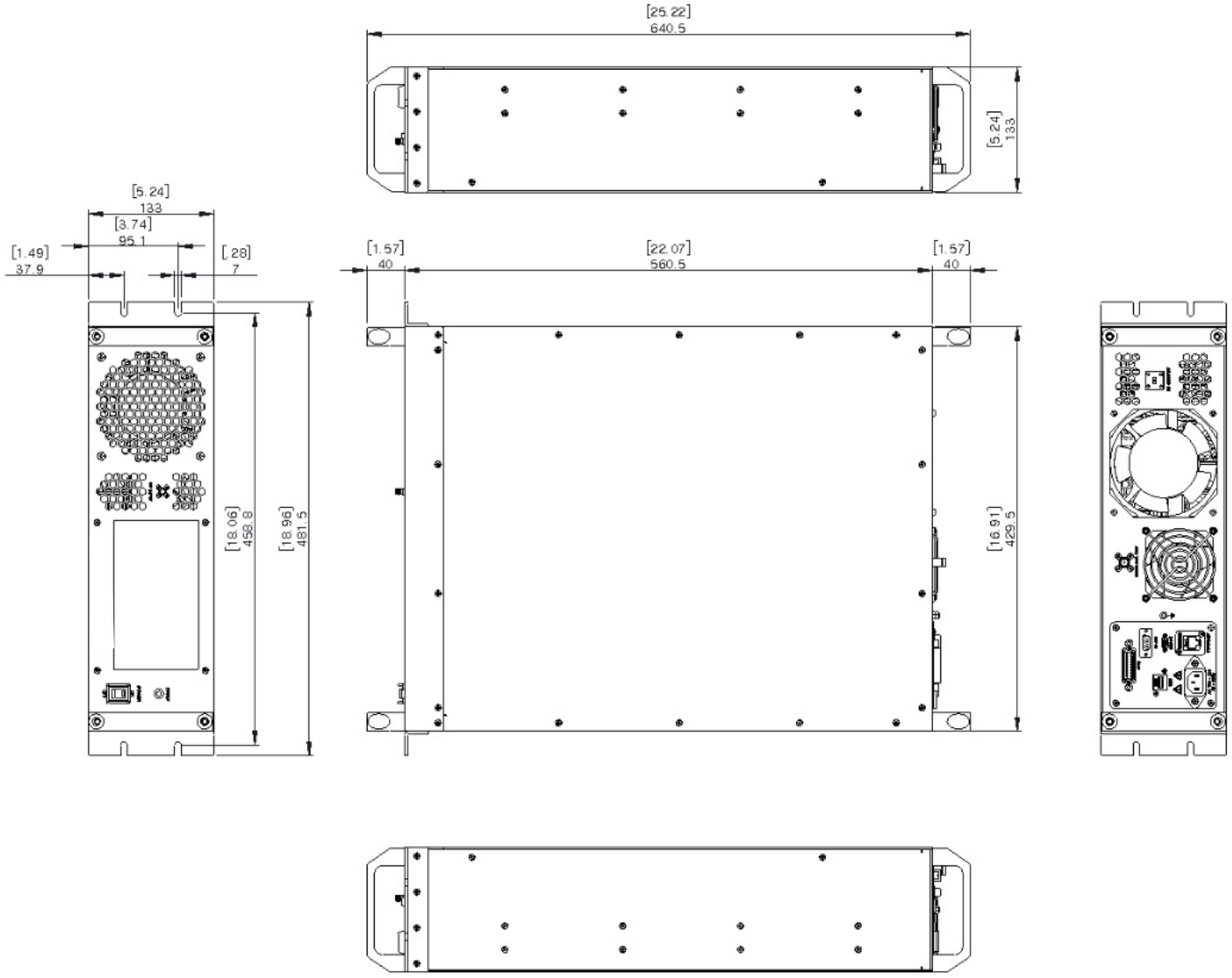
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-60dB, 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	6-points standard[4]

4 Consult the factory if additional points are required

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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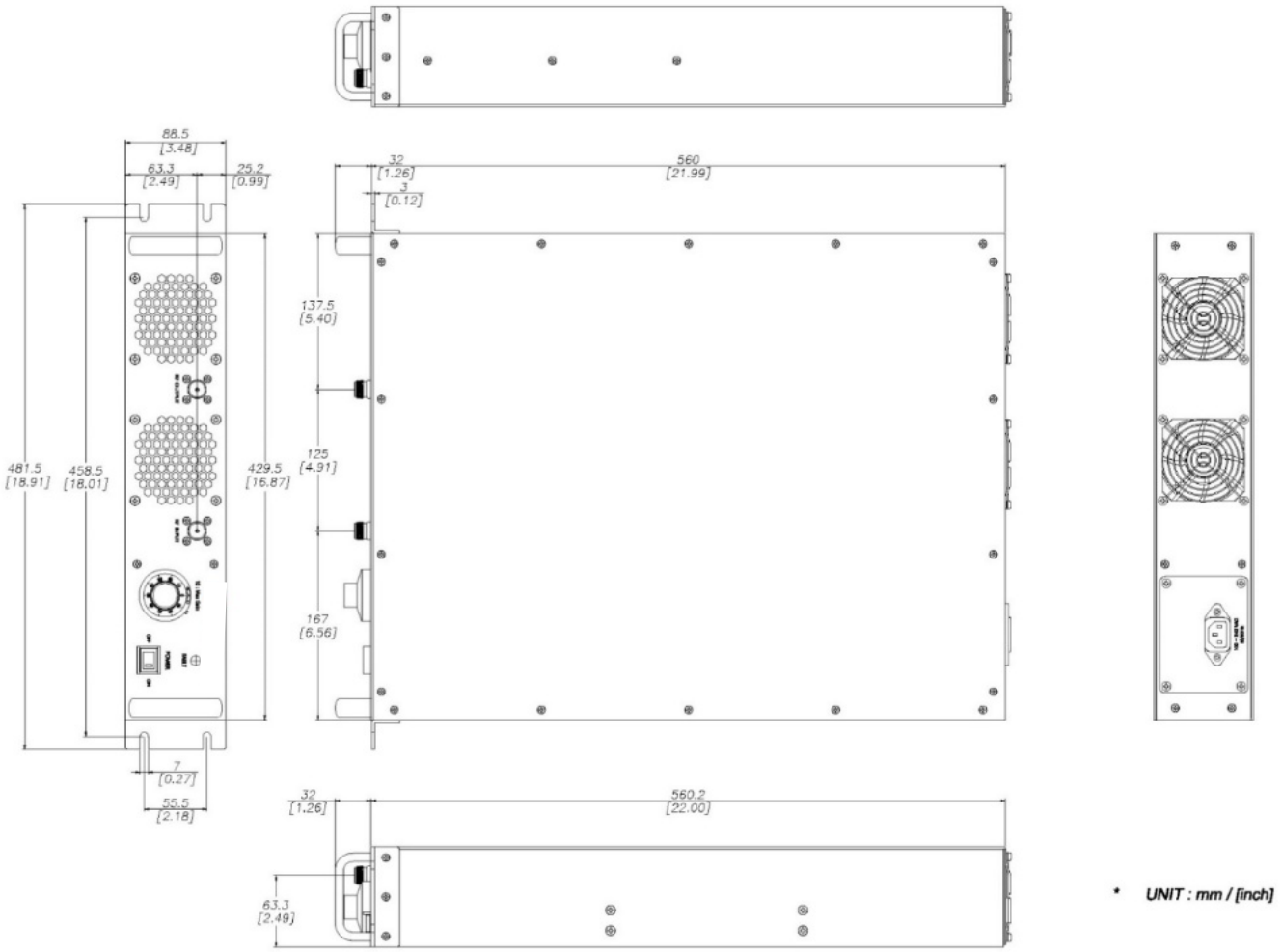
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OUTLINE DRAWING

BASIC MODEL, NO DISPLAY WITH DMC OPTION



* UNIT : mm / [inch]

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