HD32841
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, Pulse, Radar applications
Small form factor, rack mounted system
Class AB Linear design advanced technology design
Instantaneous Ultra-wide bandwidth
Linear high peak pulse applications
Built-in protection circuits, with extensive monitoring
Local LCD & remote flexible interfaces
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	0.5 - 3.0 GHz				
Output Power @ 5% / 10% Pulse Duty	200 Watt			Peak pulse	
Power Gain	53 dB Min			0dBm or less for Rated Power	
Power Gain Flatness	3.0 dB p-p Max			Constant input power	
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 100 µS	up to 5 %	100 kHz	<25 nS Typ	<1 dB
Input Return Loss	-10 dB Max				
Harmonics	-20 dBc Typ			At rated output	
Spurious	-60 dBc Max			Non-harmonics	
Output Power On/Off Ratio	-80 dB			TTL Gate Control	
Operating Voltage	100 - 240 VAC			47 - 63Hz	
Power Consumption	400 Watt Max			At rated Pout, 100µS, 5%	
Input Power Protection	+10 dBm Max[1]				
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit	
Sample Port (optional)	-50 dB			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	483 x 133 x 630 mm	3U, excluding handles
Weight	22 Kg. Nom	
RF Connectors In/Out/Sample Port (optional)	Type-N Female	Front or rear panel
Gate Control	BNC Female	Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control 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

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

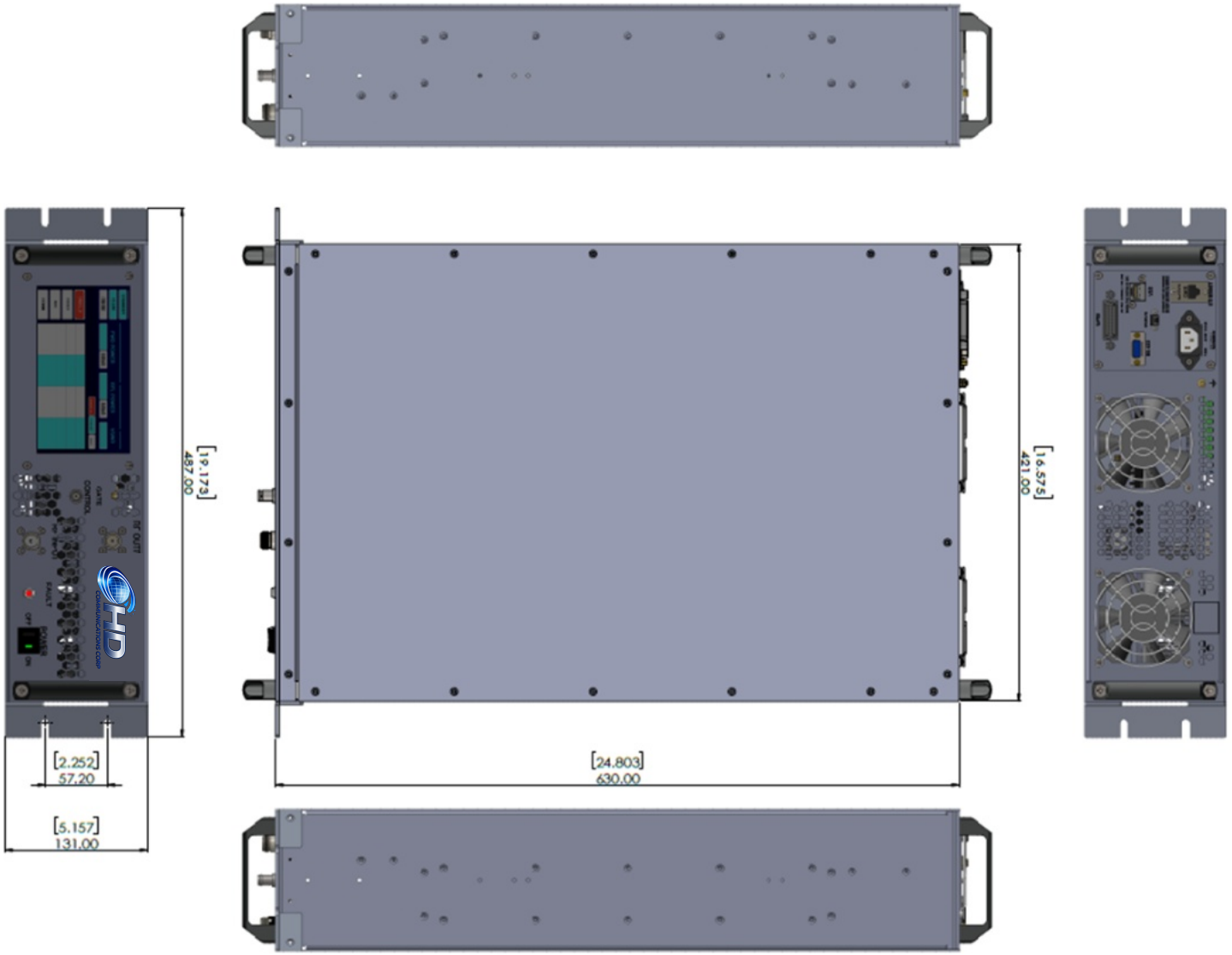
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, 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	7-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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