HD35224
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, HIRF/Pulse applications
Small form factor rack-mounted system
Class AB linear advanced technology design
Optimized for mid-range S-Band operation
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	3.1 - 3.4 GHz				
Power Output @ Pulse	5.0 KW Min			Peak Pulse	
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 300 µS	20 % Max	up to 100 KHz	<50 nS Typ	<0.6 dB Typ
Power Gain	67 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	3 dB p-p Max			Constant input power	
Gain Adjustment Range	20 dB Min			Local or Remote	
Input Return Loss	-10 dB Max				
Output Power On/Off Ratio	80 dB Max			TTL Gate Control	
Harmonics	-20 dBc Typ			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	120/208 VAC, 3-Ph, 47 - 63 Hz			Opt: 230/400VAC, 3-Ph	
Power Consumption / Efficiency	6 KW Max (3 KW Max per input)			At rated Pout	
Input Power Protection	+8 dBm Max[1]				
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit	
Sample Port (optional)	-60 dB Nom			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	Target: -10 - 50°C
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	Designed to meet MIL-STD-810

3 MIL Spec available for quotation, ground, shipboard, airborne.

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	421 x 353 x 800 mm	8U, excluding handles
Weight	50 kg.	
RF Connectors In/Out/Sample (optional)	N-Female/ WR-284 (716-Available) / N-Female	Front or rear panel
Gate Control	BNC Female	Front panel
AC Power / Interface Connector	MS / D-Sub 9-Pins	Or equivalent (Rear panel)
Cooling	Built in Fan Cooling	Variable speed
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 Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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

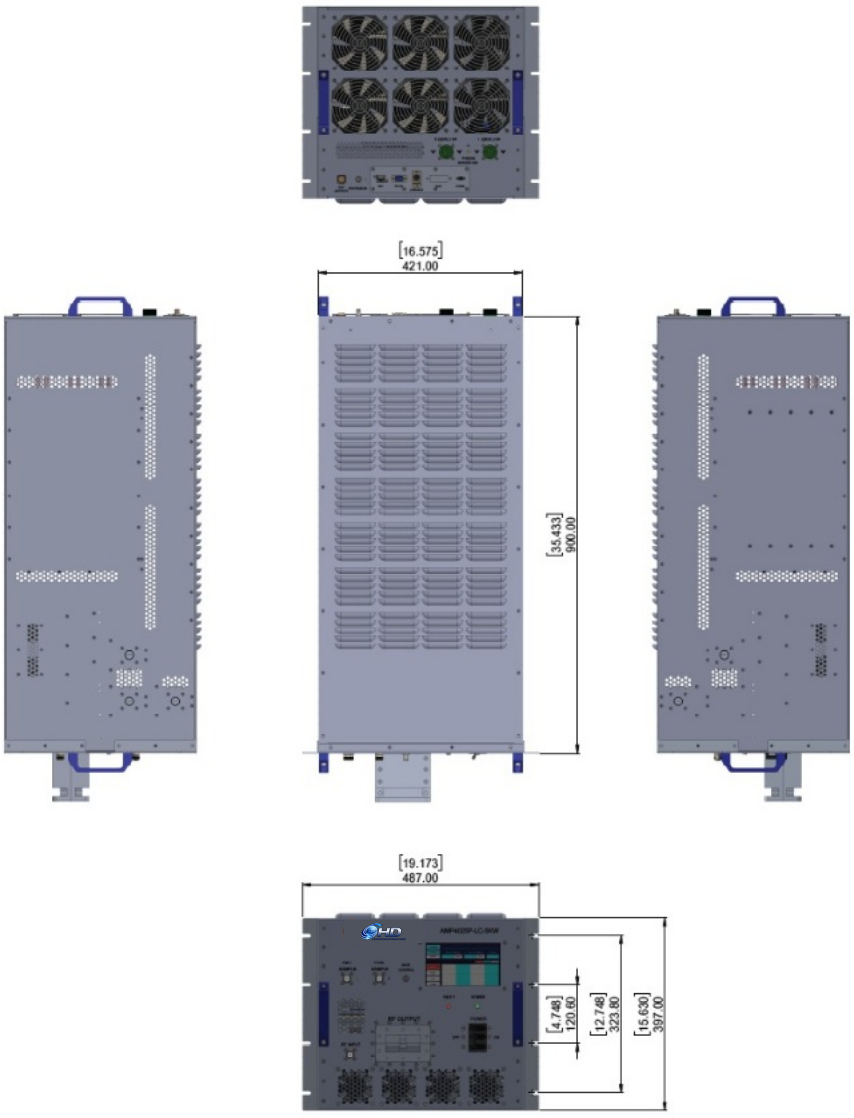
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-60dB, 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	4-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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