HD35247
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, and general Pulse & Phased-Array applications
Small form factor, rack mounted system
Class A/AB linear design
High power advanced technology devices
Instantaneous bandwidth
Built-in protection circuits
High reliability and ruggedness with extensive monitoring
All remote-control platforms included
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification			Notes	
Operating Frequency Range	100 - 770 MHz			Peak Pulse	
Output Power @ Pulse	10 KW Min			< 5% overshoot	
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 100 µS	2 % Max	up to 100 KHz	<50 nS Typ	<1 dB
Power Gain	70 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	2.0 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 Min			TTL Gate Control	
Harmonics	-15 dBc Typical			At rated output power	
Spurious	-50 dBc Max			Non-harmonics	
Operating Voltage	230/400 VAC, 3-Ph, 47 - 63 Hz			Opt: 120/208VAC, 3-Ph	
Power Consumption	10.0 KW Avg Max			At rated Pout	
Input Power Protection	+8 dBm Max[1]				
Load VSWR Protection	5 : 1			Foldback @ preset limit	
Sample Port (optional)	-70 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, each module is circulator protected for rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	10 to +50 ºC	
Storage Temperature	-40 to +85 ºC	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation
4 Option ETR, extended temp range

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

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MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	27U standard rack height	Alternate height TBQ
Weight	450 kg. Nom.	rack integrated
RF Connectors In/Out/Sample	RF Input Type-N Female RF Output 1 5/8" EIA RF Sample Type-N Female	Front or rear panel Rear panel Front or rear panel
Gate Control	BNC Female	Rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS3106E 32-17P	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	Air-Cooled
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

AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-70dB or -50dB sampling	-N-Female (Front or rear panel)
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Option RI: Rack Cabinet Integration	27U standard rack height	Alternate height TBQ

5 System is comprised of 8 x 2KW RF outputs, phase/gain matched to within acceptable tolerance factory defined.

6 Consult with factory if additional points would be required.

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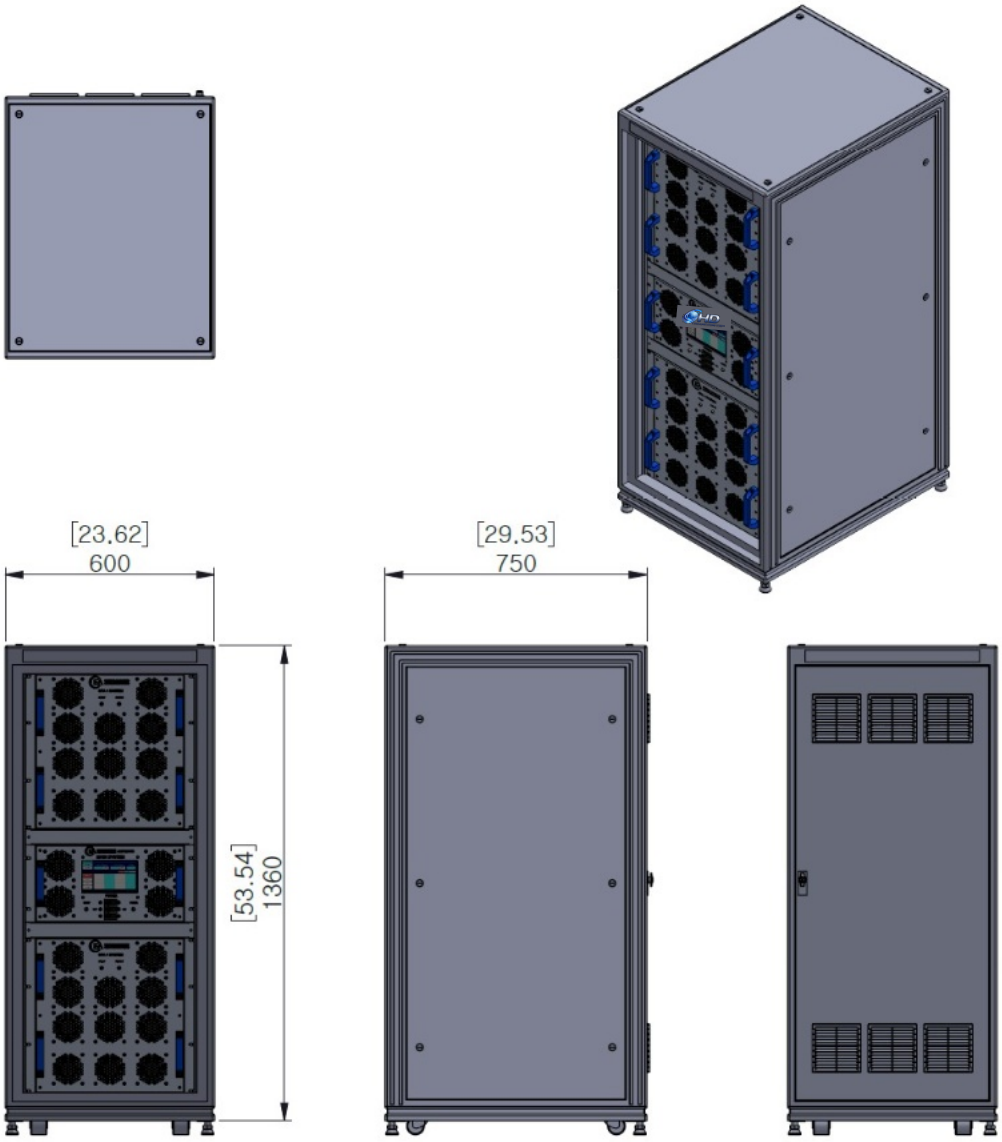
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OUTLINE DRAWING

SHOWN WITH LCD DIGITAL CONTROLLER



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