HD35162
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, HIRF/Pulse applications
Small form factor rack-mounted system
High power advanced class A/AB linear GaN devices
Instantaneous C-Band 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, 25ºC

Parameter	Specification			Notes	
Operating Frequency Range	4.0 - 8.0 GHz				
Power Output @ Pulse	6.0 KW Min			Peak Pulse	
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 150 µS	10 % Max	up to 100 KHz	<50 nS Typ	<1 dB
Power Gain	68 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	4.0 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 Typ			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	120/208, 3-Ph, 47 - 63 Hz			Opt: 230/400VAC, 3-Ph	
Power Consumption	8 KW Max / Typ 6 KW			At 10% & rated Pout	
Input Power Protection	+8 dBm Max[1]				
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit	
Sample Port (optional)	-60 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 ºC	-30 to +55ºC[4]
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	See Outline	27U in rack
Weight	600 lbs. Nom.	750 lbs rack integrated
RF Connectors In/Out/Sample (optional)	RF Input Type-N Female RF Output WR137 RF Sample Type-N Female	Front or Rear Panel Rear Panel Front or Rear Panel
Gate Control	BNC Female	Front or Rear Panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid 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 Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

AVAILABLE SPECIAL OPTIONS

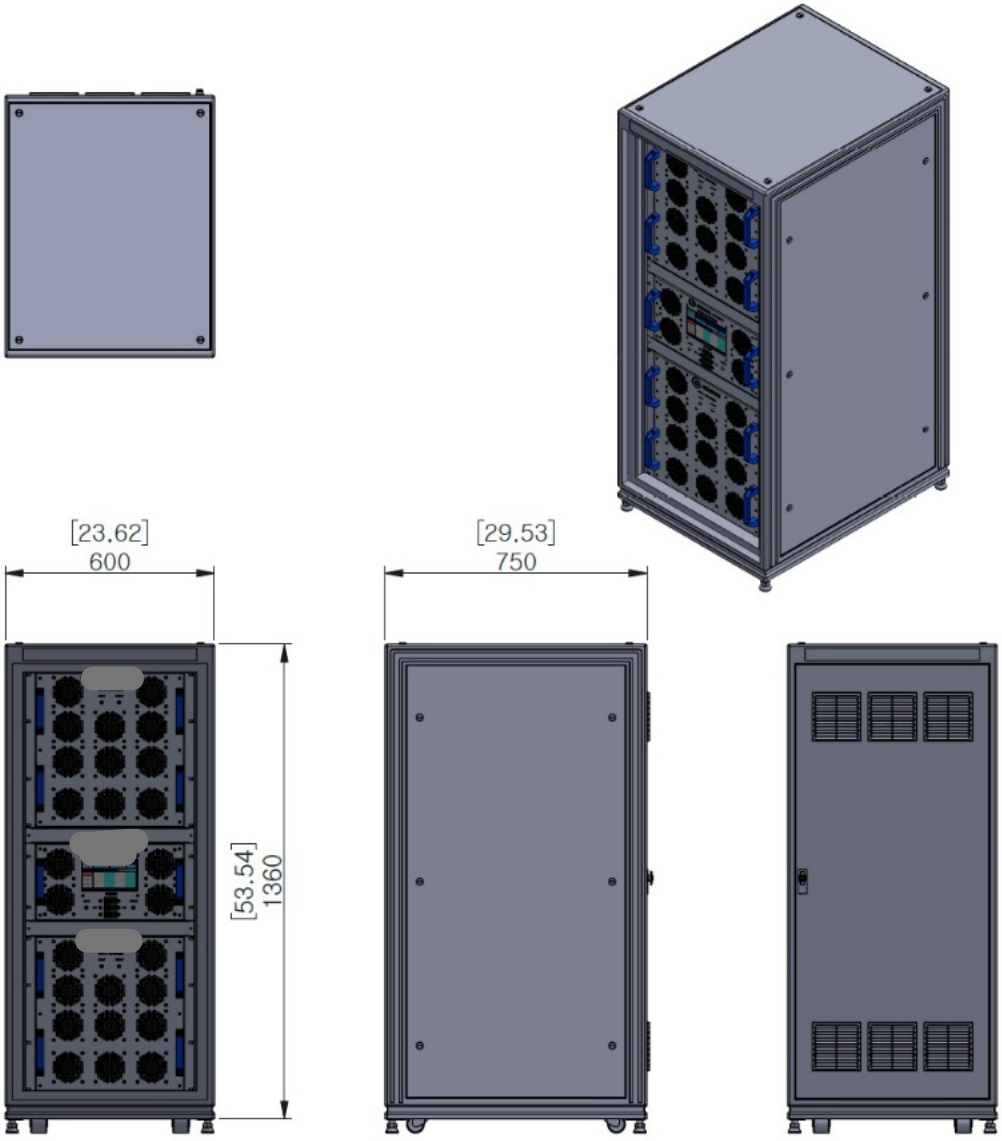
Parameter	Specification	Notes
Option RI: Taller Rack Cabinet Integration	Alternate height TBQ	27U standard cabinet height
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option ETR: Extended Temperature Range	-30 °C to +50 °C	Storage (-40 °C to +85 °C)
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	9-points standard[5]

5 Consult the factory if additional points are required.

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OUTLINE DRAWING
System Outline in 27U Rack Cabinet
SHOWN WITH LCD DIGITAL CONTROLLER



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