HD35140
SOLID STATE HIGH POWER 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 L-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



Image w/o rack
Unit shipped rack integrated.

ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification			Notes	
Operating Frequency Range	1.0 - 2.0 GHz				
Power Output @ Pulse	8.0 KW Min			Peak Pulse	
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 100 µS	6 % Max	up to 100 KHz	<50 nS Typ	<1 dB
Power Gain	69 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	5.0 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	200 - 240 VAC, 50- 60Hz			Opt: 120/208, 3-Ph	
Power Consumption	4000 Watt Max			At rated output	
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 +50ºC	
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

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com
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	18U in rack
Weight	250 lbs. Nom.	<350 lbs rack integrated
RF Connectors In/Out/Sample (optional)	RF Input Type-N Female RF Output SC or 716 Female RF Sample Type-N Female	Front Panel Rear Panel Front Panel
Gate Control	BNC Female	Front 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	18U standard cabinet height
Option FRS: Forward RF Sample	-70dB, 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	7-points standard[4]

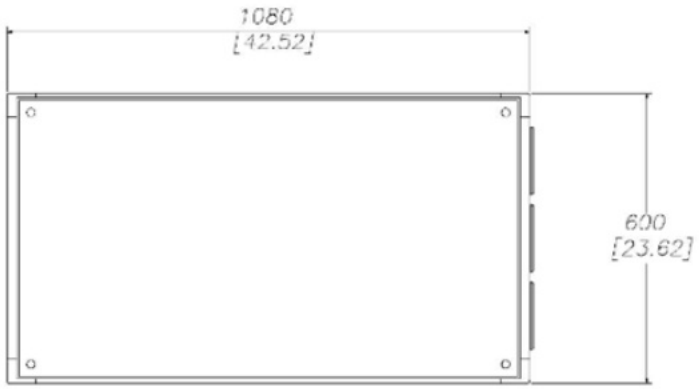
4 Consult with factory if additional points would be required

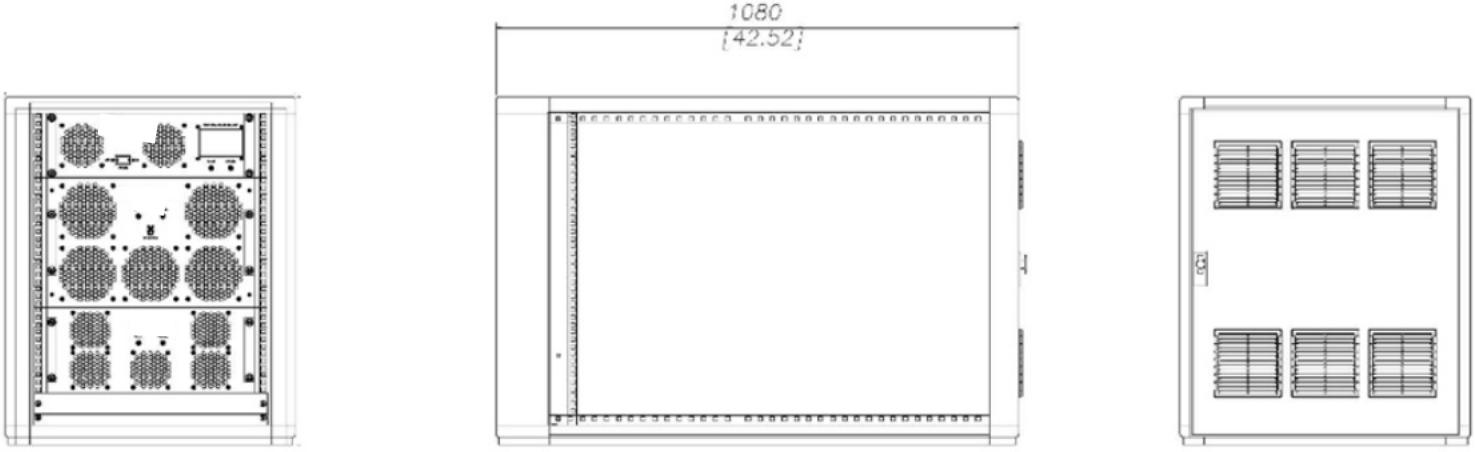
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OUTLINE DRAWING
in 18U Rack Cabinet
SHOWN WITH LCD DIGITAL CONTROLLER





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