HD34066
SOLID STATE HIGH PULSE POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, HIRF/Pulse applications
Small form factor rack-mounted system
Class AB linear advanced technology design
Linear high peak pulse X-Band 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	
Band	A		A	Band switching @ 15 mS Typ	
Operating Frequency Range	8 - 10 GHz		10 - 12 GHz		
Pulse Power Output	4.0 KW Typ			Peak Pulse	
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 100 µS	6 % Max	up to 100 KHz	<50nS Typ	<1 dB
Power Gain	66 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 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	5000 Watt Avg Max			At rated Pout	
Input Power Protection	+3 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 °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

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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	22U rack
Weight	350 lbs. Nom.	<450 lbs. rack integrated
RF Connectors In/Out/Sample	RF Input Type-N Female RF Output WR90 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: Rack Cabinet Integration	18U standard rack height	Alternate height TBQ
Option FRS: Forward RF Sample	-60dB, 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	9-points standard[4]

4 Consult the factory if additional points are required.

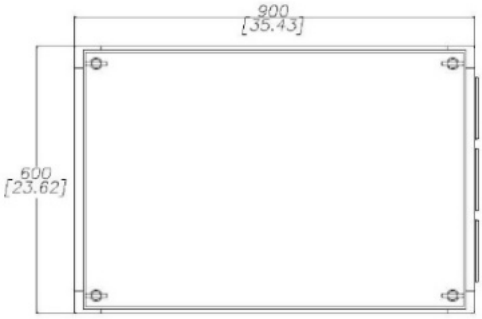
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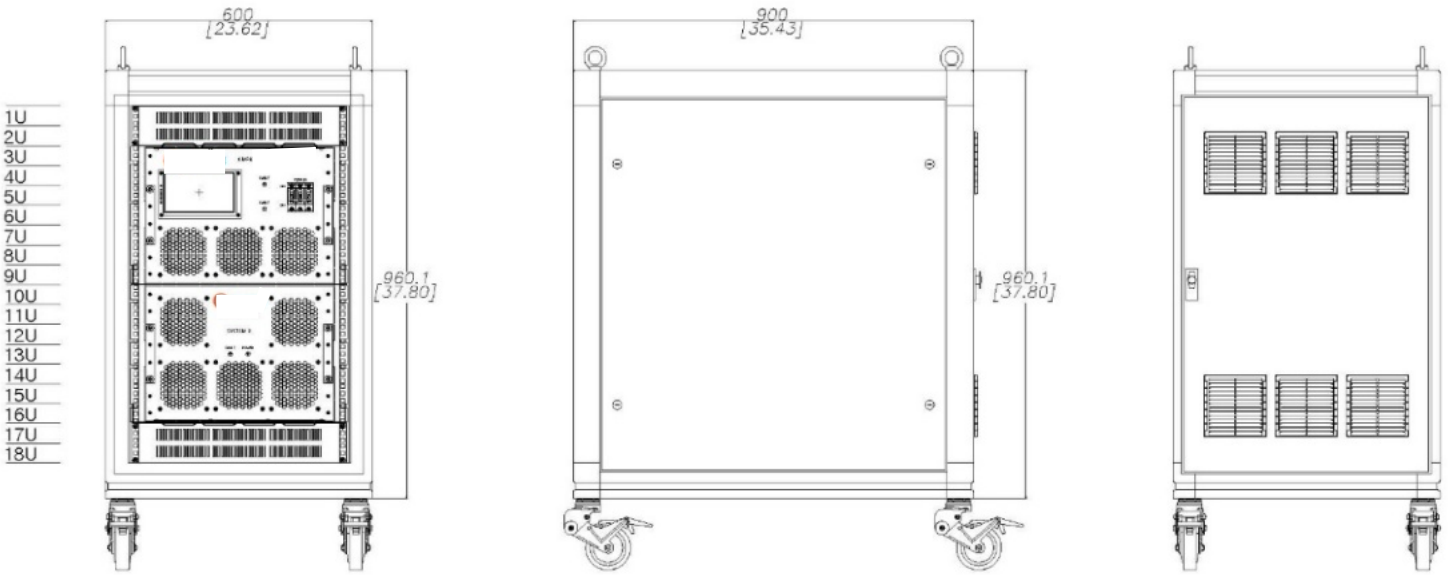
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OUTLINE DRAWING

System Outline in 18U Rack Cabinet



 # UNIT : mm / [inch]



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