HD Communications Corp.

HD32109
SOLID STATE PULSE HIGH POWER AMPLIFIER

FEATURES

Small form factor rack mounted system
High power GaN pulse devices
Instantaneous bandwidth
Suitable for linear pulse applications
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	5.4 - 5.9 GHz			
Peak Output Power	5 KW Min			@ 10% Duty Cycle
Output Power Flatness	3 dB p-p Max			±1.5dB
Input Power	0 dBm Nom			
Saturated Gain	67 dB Min			
Pulse Characteristics	**Width**	**Duty**	**PRF**	
	100 µS Max	10 % Max	1 KHz	
Rise / Fall Time	<150 nSec			
Droop	<0.8 dB			
Input / Output VSWR	1.5 : 1			Relative to 50 Ohm
Harmonics	-30 dBc Max			At rated Output Power
Spurious	-65 dBc Max			
Load VSWR	5 :1 Max			No damage
AC Input Voltage	220 VAC,50/60 Hz			
Efficiency	20 % Typ			

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-20 to +70°C	
Relative Humidity	95% @ 40°C	
Altitude	5160 m	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	600 x 1214 x 750 mm	22U
Weight	TBD	
RF Connectors In/Out	Type-N Female / CPR187 Waveguide	Rear panel
Driver Input Connector	BNC Female	Rear Panel
RF Output Monitoring	SMA Female	50dB ±1dB coupled Port
AC Power	TBD	Rear panel
AC Power Switch	Circuit Breaker - LED	Front panel
Interface Connector	9-Pin D-Sub	
Cooling	Built in Fan Cooling	

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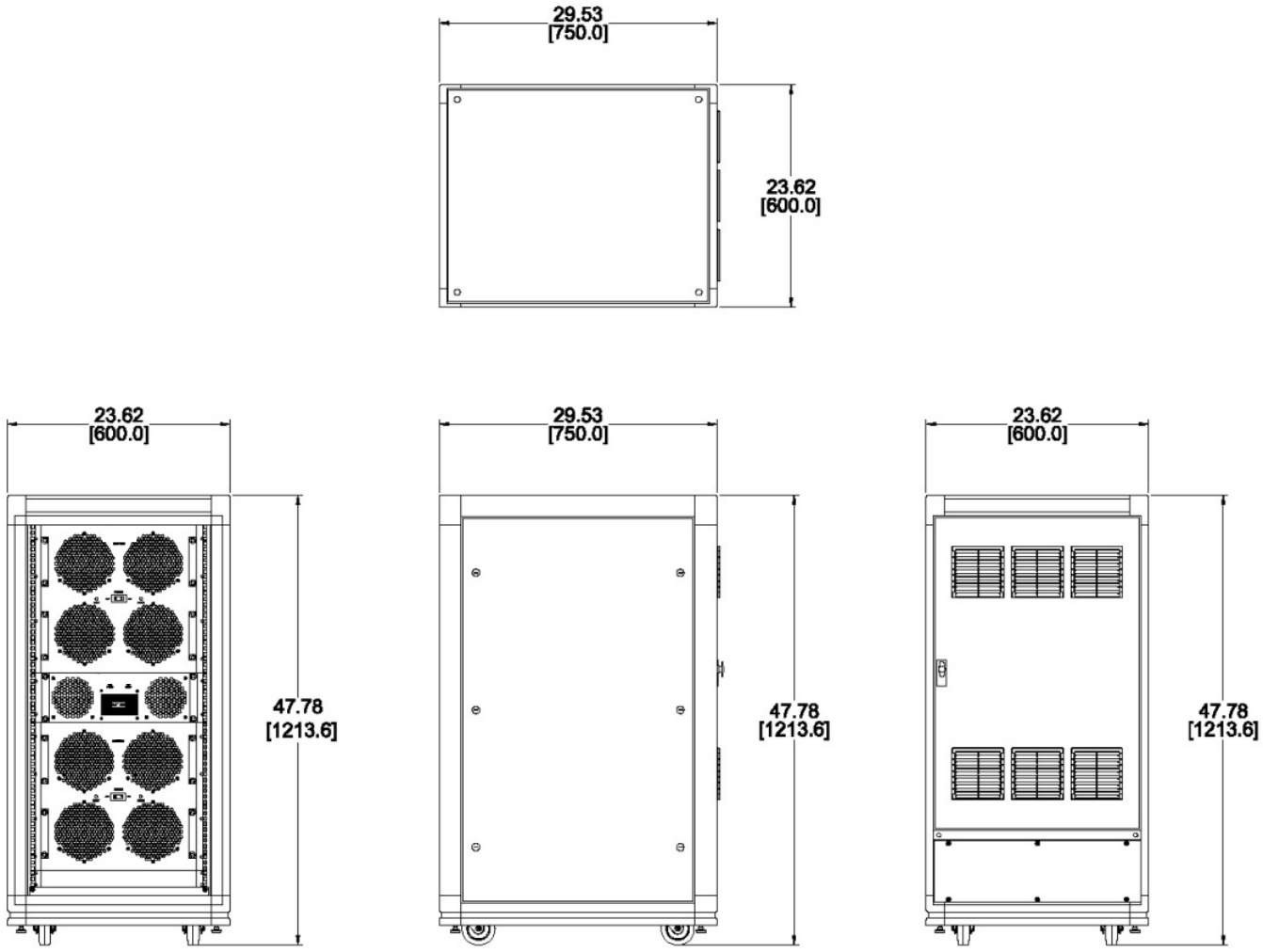
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PROTECTIONS

Parameter	Specification	Notes
General Protection	AC overload, Over temperature, Load VSWR	
Pulse protection	Pulse width, Duty cycle	

OUTLINE DRAWING



*. NOTE

#. 22U Rack

#. 5KW SYSTEM

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