



# AMP2096P SOLID STATE PULSE HIGH POWER AMPLIFIER

## FEATURES

- High power, long pulse RF frequency range
- Rack mounted cabinet
- High power LDMOS pulse devices
- Instantaneous bandwidth
- Suitable for linear long pulse applications
- Built-in protection circuits
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	3 - 30 MHz			
Peak Output Power	50 KW Min			@ 20 % Duty
Output Power Flatness	3 dB p-p Max			±1.5dB
Input Power	0 dBm Nom			
Saturated Gain	70 dB Min			
Pulse Characteristics	<b>Width</b>	<b>Duty</b>	<b>PRF</b>	
	10 mS Max	20 % Max	20 Hz	
Rise / Fall Time	<150 nSec			
Drop	<1.0 dB			
Input / Output VSWR	2 : 1			Relative to 50 Ohm
Harmonics	-20 dBc Typ			At rated Output Power
Spurious	-65 dBc Max			
Load VSWR Protection	5 : 1 Max			<1 minute at rated Pout
AC Input Voltage	220 VAC, 3 $\phi$ , 50/60 Hz			
Efficiency	20 % Typical			250KW peak @ rated power

## 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	See outline drawing	36U + 31U
Weight	RF = 250Kg, Combiner = 170Kg.	Dummy Load = 125Kg.
RF Connectors In/Out	Type-N Female / EIA 3 1/8 Female	Rear panel
Trigger Input Connector	BNC Female	Rear Panel
AC Power	MS type	Rear panel
AC Power Switch	Circuit Breaker - LED	Front panel
Interface Connector	9-Pin D-Sub	
Cooling	Built in Fan Cooling	

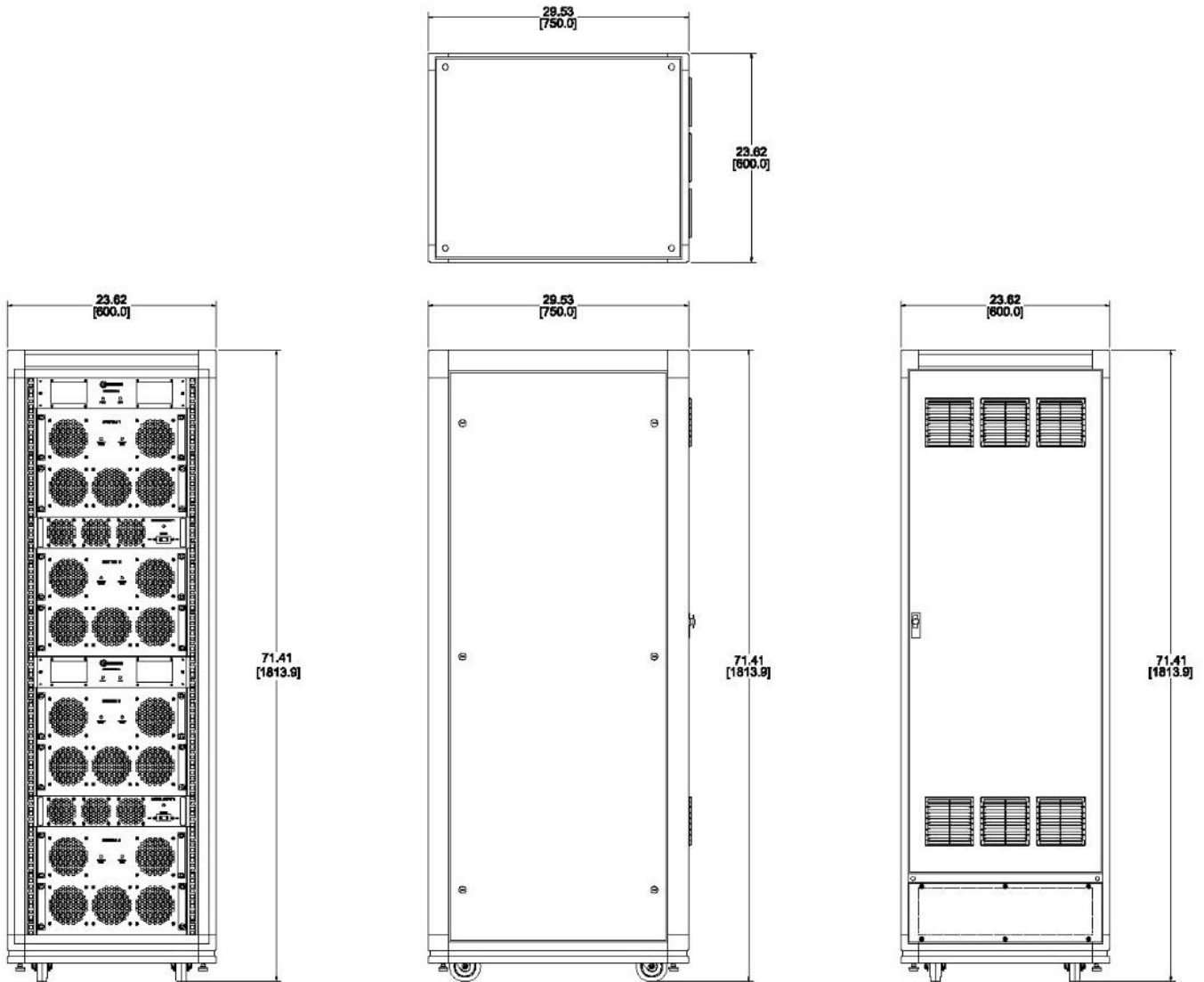


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## PROTECTIONS

Parameter	Specification	Notes
General Protection	AC overload, Over temperature, Load VSWR	
Input Pulse protection	≤10 mS Pulse width 20.5% Nom Duty cycle	

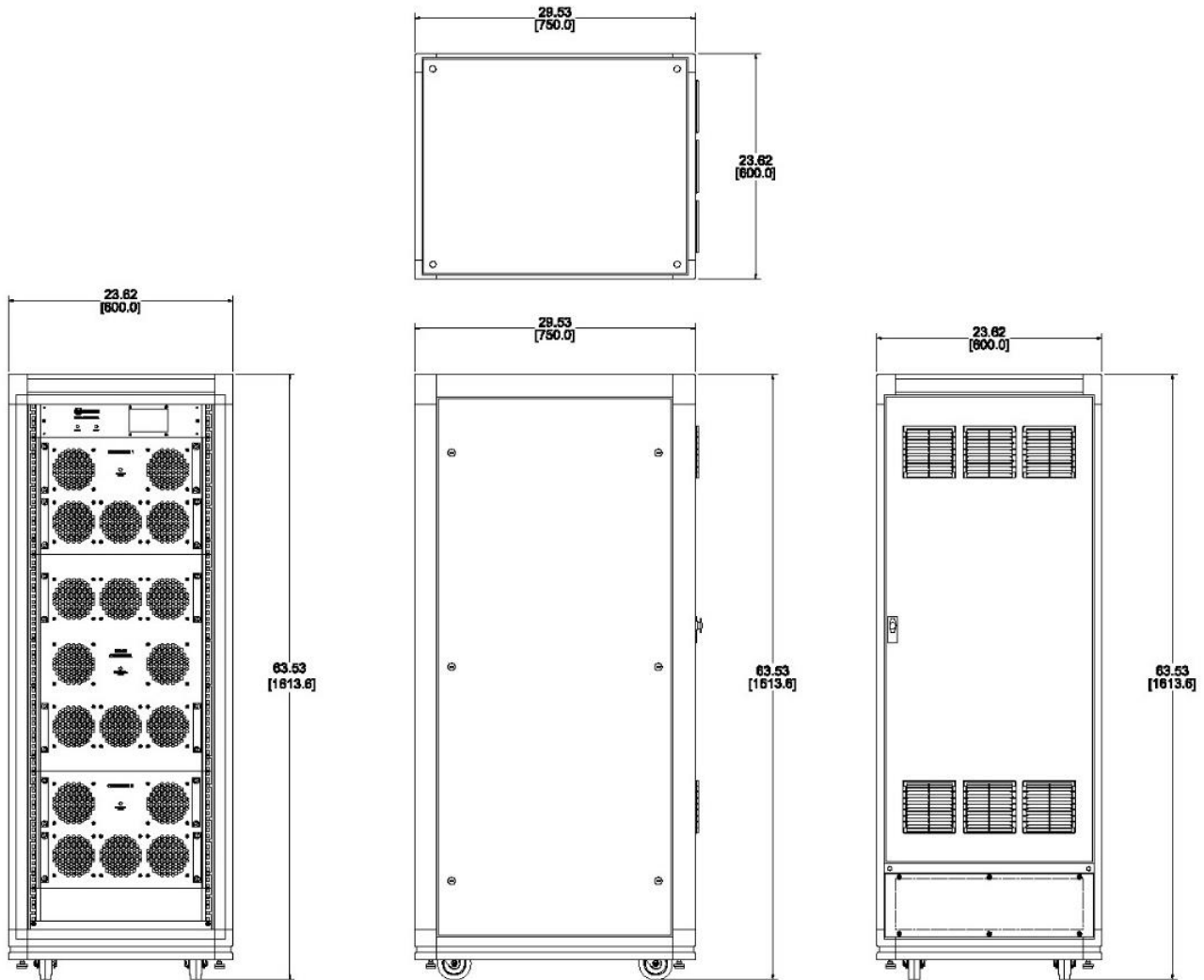
## RF SECTION OUTLINE DRAWING



**\*. NOTE**  
 #. 36U Rack  
 #. 60KW PA UNIT

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## COMBINER UNIT OUTLINE DRAWING



**\*. NOTE**

#. 31U Rack

#. 50KW COMBINER UNIT