



AMP4038P 12KW HIGH POWER PULSE SOLID STATE AMPLIFIER

FEATURES

- Small form factor rack cabinet system
- High power LDMOS pulse devices
- Instantaneous bandwidth
- Suitable for high power linear pulse applications
- Built-in protection circuits
- High reliability and ruggedness
- System comprises: x8 phase/amplitude matched 1.6KW pulse modules to produce 12KW typical power.



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes
Operating Frequency Range	2.7 - 2.9 GHz			
Peak Output Power	12 KW Typ. 10KW Min			@ 10 % Duty Cycle
Output Power Flatness	2 dB p-p Max			
Input Power	0 dBm Nom			
Saturated Gain	70 dB Min			
Pulse Characteristics	Width	Duty	PRF	
	200 μS Max	10 % Max	500 Hz Nom	
Rise / Fall Time	<150 nSec			
Droop	<0.8 dB			@ PW = 100 μS
Input / Output VSWR	1.5 : 1 Min			
Harmonics	-30 dBc Max			At rated Output Power
Spurious	-65 dBc Max			Non-harmonics
Load VSWR Protection	5 : 1 Max			No damage
Input power Protection	+5 dBm Max			Input limiter
AC Input Voltage	220 VAC Nom, 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% Max @ 40°C	Non-condensing
Altitude	5160 m Max	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	600 x 1414 x 750 mm	27U
Weight	250 Kg. Nom	
RF Connectors In / Out	Type-N Female / CPR284F Waveguide	Rear panel
Driver Input Connector	BNC Female	Rear Panel
RF Output Monitoring - Coupled Port	N Female	60dB ±1dB Nom
AC Power	MS Connector	Rear panel
AC Power Switch	Circuit Breaker - LED	Front panel
Interface Connector	9-Pin D-Sub	
Cooling	Built in Fan Cooling	

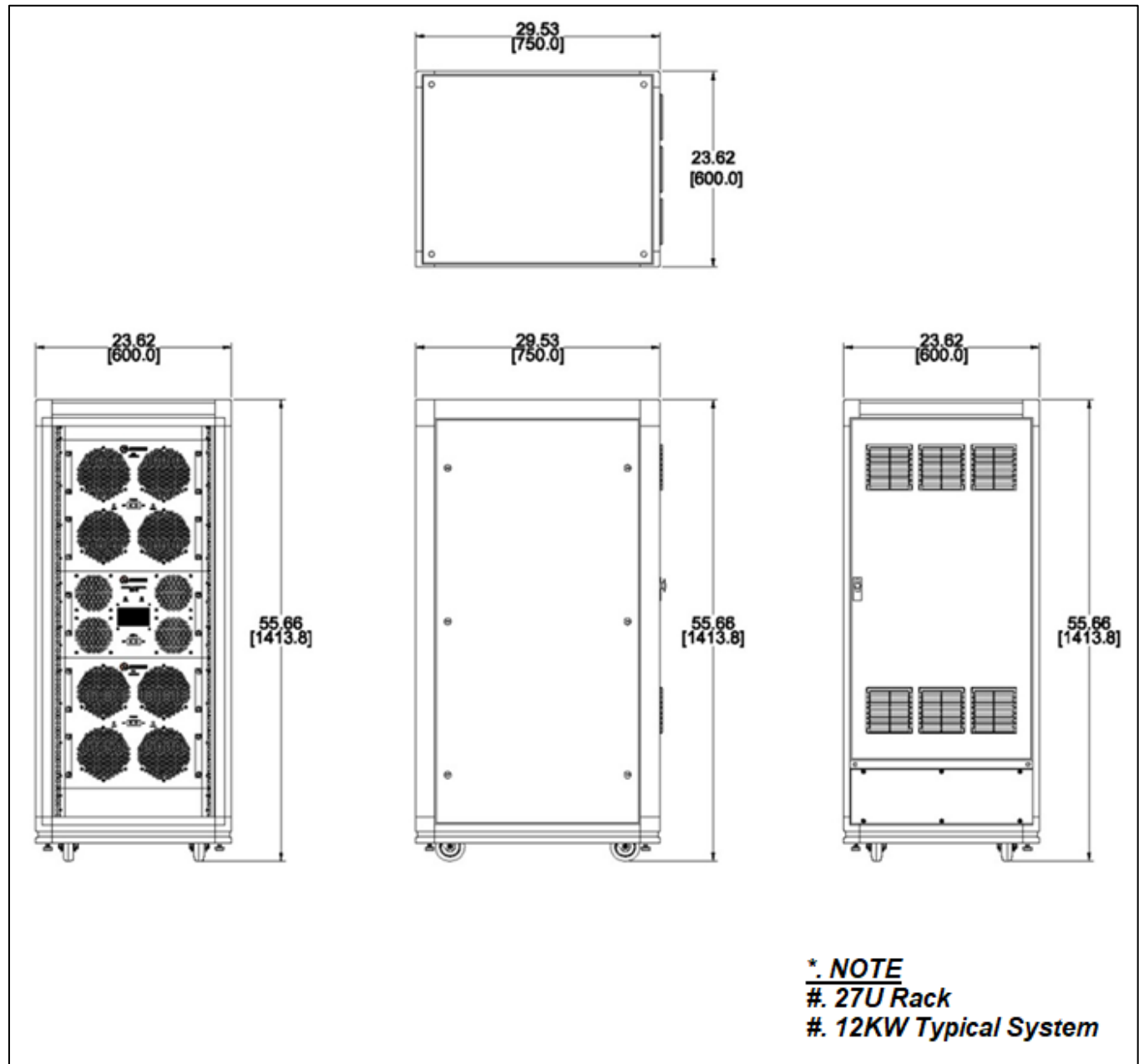


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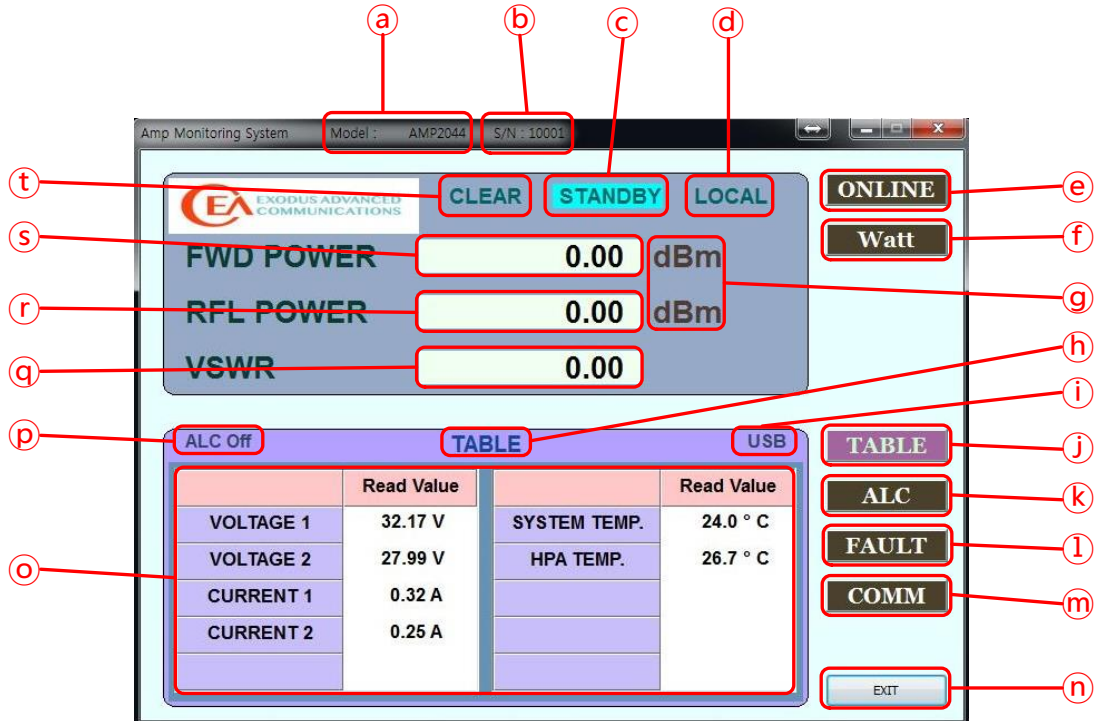
PROTECTIONS

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

OUTLINE DRAWING



CONTROLLER - PRIMARY (MAIN) WINDOW



- a Model: Connected model number.
- b S/N: Serial number of the connected model.
- c STANDBY/ONLINE: Display system STANDBY/ONLINE status.
- d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
- e ONLINE/STANDBY: System ONLINE/STANDBY button.
- f Watt/dBm: Watt/dBm conversion button.
- g dBm/Watt: Display dBm/Watt status.
- h TABLE/ALE/FAULT/COMM: Display menu status.
- i RS232 (RS422)/USB/BLUETOOTH/ETHERNET: Display the communication mode.
- j TABLE: TABLE menu button.
- k ALC: ALC menu button.
- l FAULT: FAULT menu button.
- m COMM: COMM menu button.
- n EXIT: Button to exit the program.
- o Display status of the TABLE menu window.
- p ALC On/ALC Off: Display ALC operating status.
- q VSWR: Display VSWR value.
- r RFL POWER: Display RFL POWER value.
- s FWD POWER: Display FWD POWER value.
- t CLEAR/FALUT: Display CLEAR/FAULT status.

✚ A GUI is included should the customer require for their planned application.