



AMP2043P-4KW SOLID STATE HIGH POWER PULSE AMPLIFIER



FEATURES

- Small form factor rack-mounted system
- Class AB linear Advanced technology design
- Instantaneous L-Band octave bandwidth
- Linear high peak pulse applications
- Designed for EMI/RFI, lab, HIRF/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	
Operating Frequency Range	1.0 - 2.0 GHz				
Power Output @ Peak Pulse	4.0 KW Min				
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	2.0 dB p-p Max			Constant input power	
Gain Adjustment Range	20 dB Min				
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	100 - 240 VAC			47 - 63Hz	
Power Consumption	1.5 KW Max			At rated Pout	
Input Power Protection	+10 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

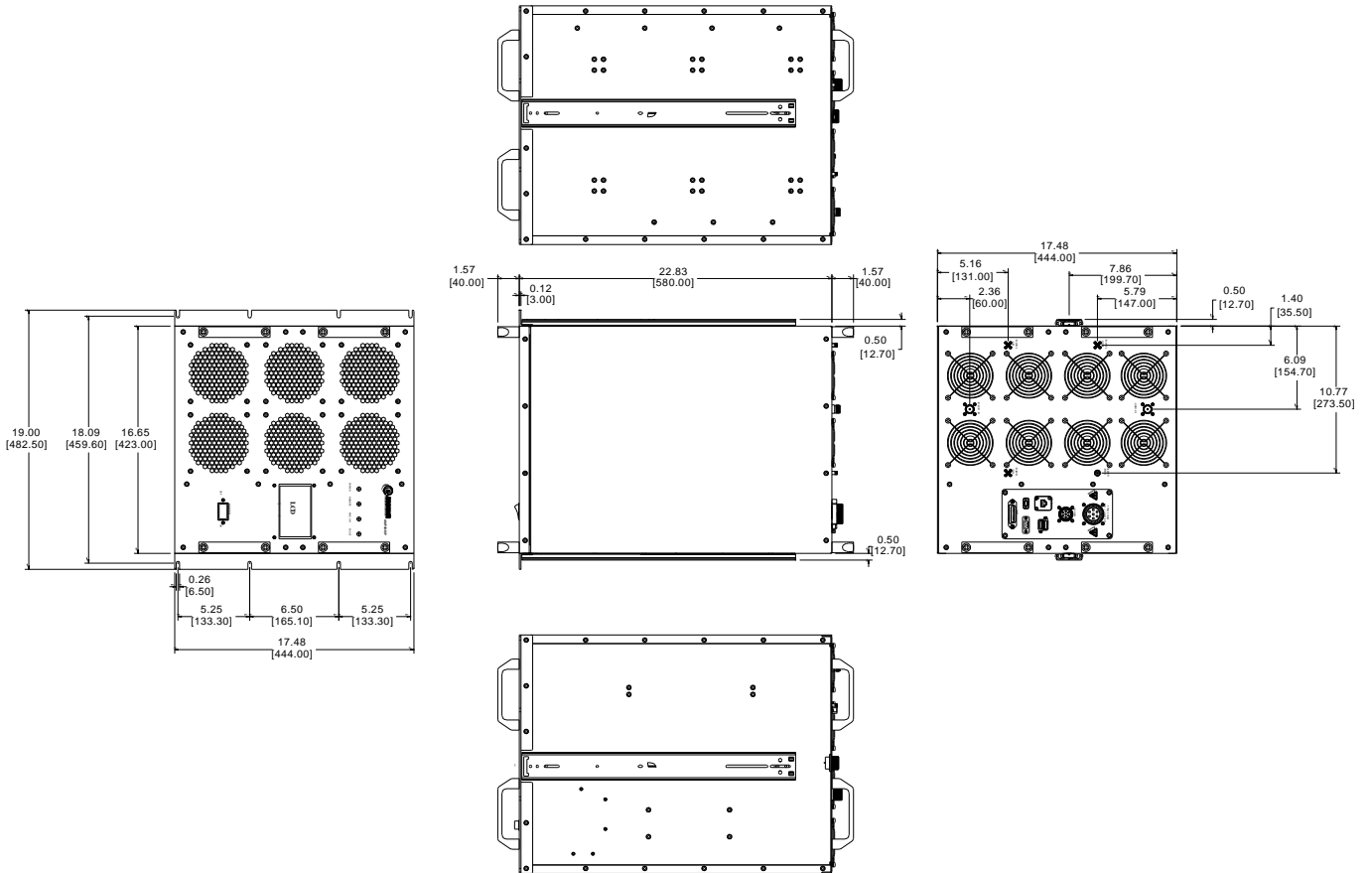
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 444 x 580 mm	10U - Excluding handles
Weight	45 kg.	
RF Connectors, In / Out / Sample	N-Female/ SC-Female / N-Female	Front or rear Panel
Gate Control	BNC Female	Front Panel
AC Power / Interface Connector	IEC60320-14 / D-Sub 9-Pins	Or equivalent
Safety Interlock Connector	D-Sub (Optional BNC female)	Open=STBY/Short=RFON
Cooling	Built in Fan Cooling	Variable speed
INCLUDED: Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

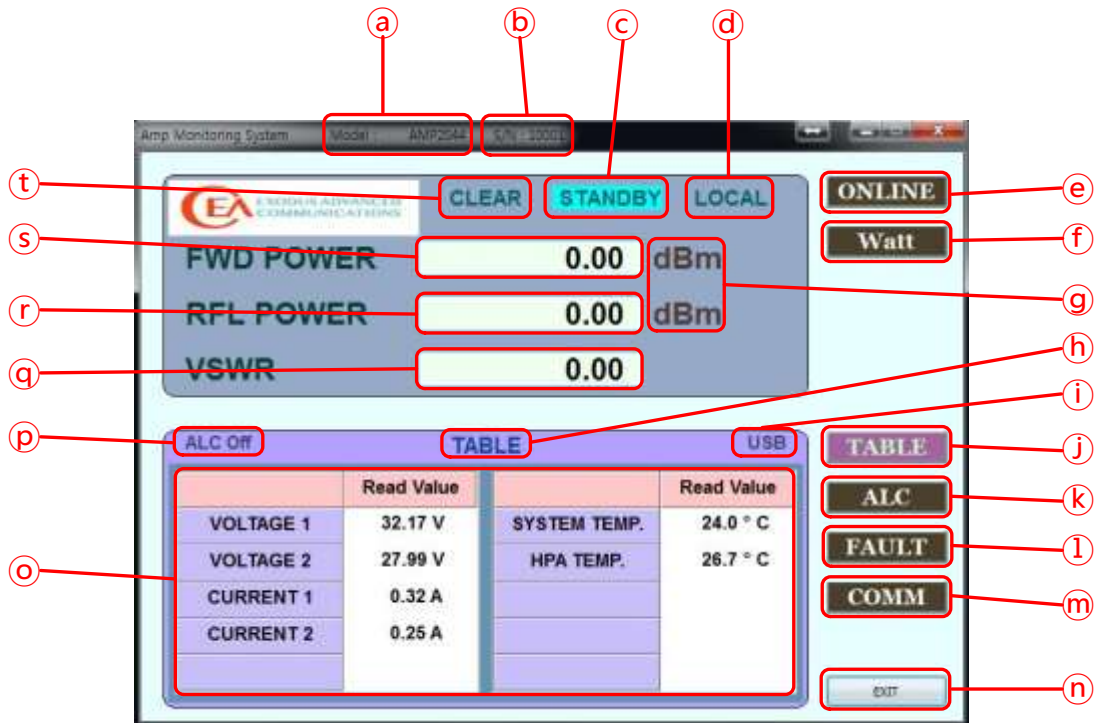
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OUTLINE DRAWING - 10U



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/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.