

AMP2041-2 SOLID STATE HIGH PULSE POWER AMPLIFIER

Small form factor, rack mounted system
 Class A/AB linear design
 High power advanced GaN devices
 Instantaneous ultra-wide bandwidth
 Designed for EMI/RFI, lab, and general communication applications
 Suitable for linear CW and composite signal channel modulation standards & applications
 Built-in protection circuits, forward & reflected RF Sample ports
 High reliability and ruggedness with extensive monitoring & protection circuits
 All remote-control platforms included
 High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 2.5 GHz	
Power Output @ Psat	2.0 KW Typ	CW
Power Gain	63 dB Min	
Power Gain Flatness	4.0 dB p-p Max / ±1.5dB Typ	At Pin = 0dBm
Gain adjustment range	25 dB Min	>30dB Typ
Input Return Loss	-10 dB Max	Relative to 50 Ω
2-Tone Intermodulation (IMD)	-30 dBc Typ	53dBm/Tone, Δ = 1MHz
Noise Figure	10 dB Max	At Max gain
Harmonics	<-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	208 VAC, 50-60 Hz ±10 %	3-Phase WYE
Power Consumption	10 KW Max	At rated Pout
Input Power Protection	+3 dBm Max	<10Sec without damage
Load VSWR	∞ : 1	Fold-back protection >6:1

ENVIRONMENTAL CHARACTERISTICS

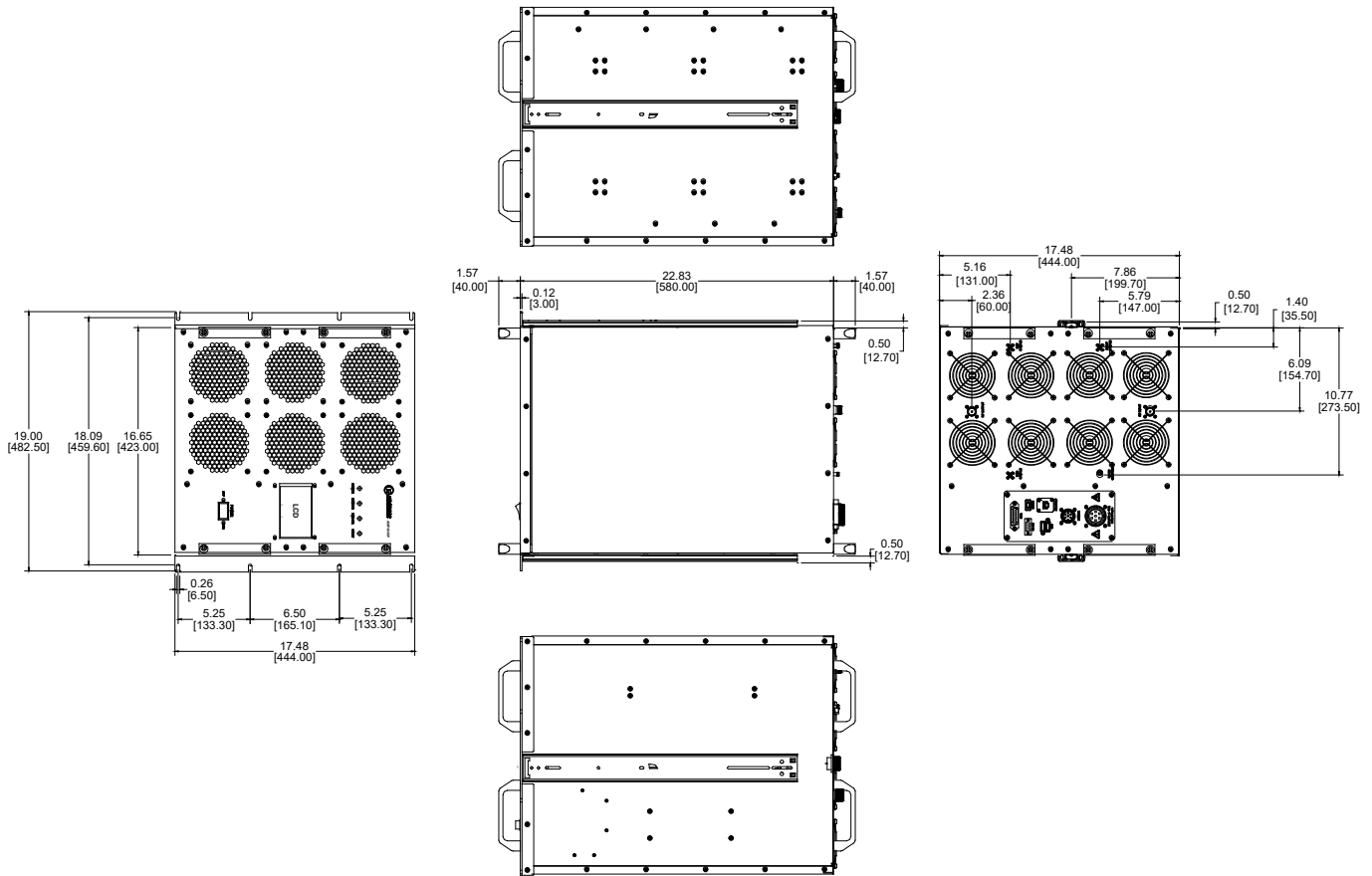
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	95 % @ 40 °C	Non-condensing

MECHANICAL SPECIFICATIONS

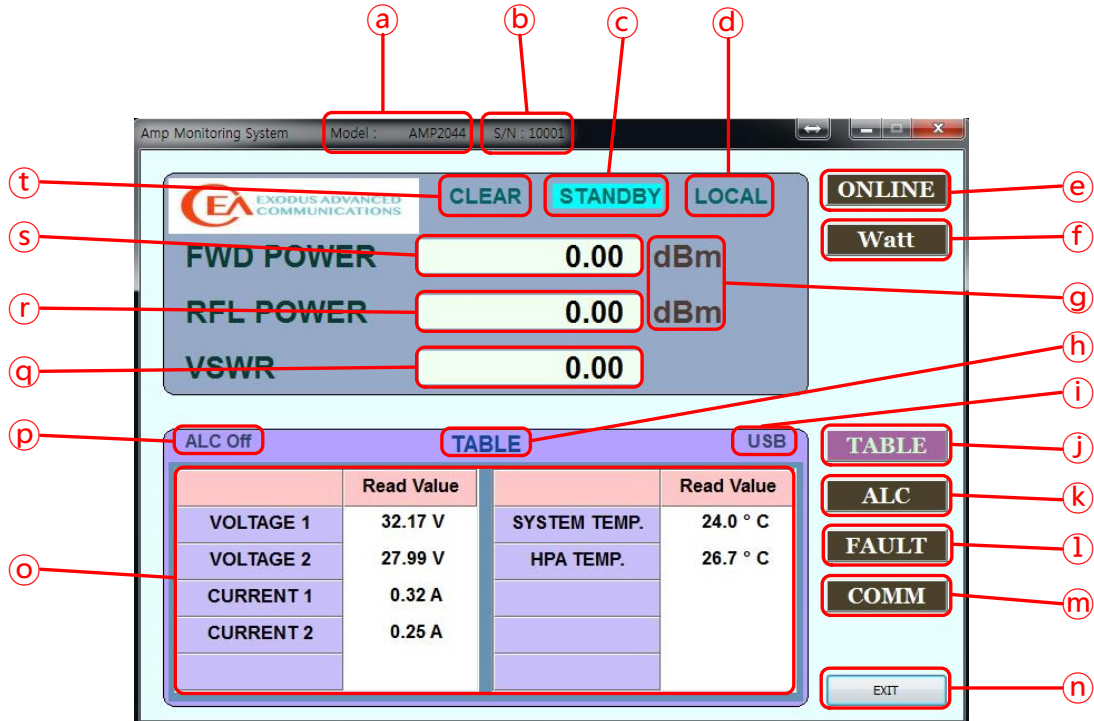
Parameter	Specification	Notes
Dimensions W x H x D	10U	Rack mount chassis
Weight	40 Kg.	
RF Connectors In / Out / Sample	RF Input Type-N Female RF Output SC Female RF Sample Type-N Female	Front Panel Rear Panel Front Panel
Gate Control (Optional)	BNC Female	Front Panel
AC Power / Interface Connector	MS / D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Standard 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 STANDY/ONLINE: Display system STANDY/ONLINE status.
- d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
- e ONLINE/STANDY: System ONLINE/STANDY 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.