



AMP2112B SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear LDMOS design
- Instantaneous ultrawide bandwidth
- Designed for EMI/RFI, lab, and general communication applications
- Suitable for all single channel modulation standards
- Rack mounted system
- Local LCD & flexible remote interfaces
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50 Ω , 25 °C

Parameter	Specification	Notes
Operating Frequency Range	1 - 1000 MHz	
Power Output @ P1dB	1 Watt to 200 Watt Min	Variable gain @ Pin = 0 dBm
Power Gain	53 dB Min	
Power Gain Flatness	4.0 dB p-p Max (± 2 dB)	Constant input power
Input VSWR	2 : 1 Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, $\Delta = 1$ MHz
Harmonics 2 nd / 3 rd	-24 dBc Max	At rated output power
Non-Harmonics Spurious	-60 dBc Max	
Operating Voltage	100 - 240 VAC	
Power Consumption	2000 Watt Max	At rated Pout
Input Power Protection	+6 dBm Max	Without damage
Load VSWR Protection	∞ : 1	Auto shutdown @ 6:1 VSWR

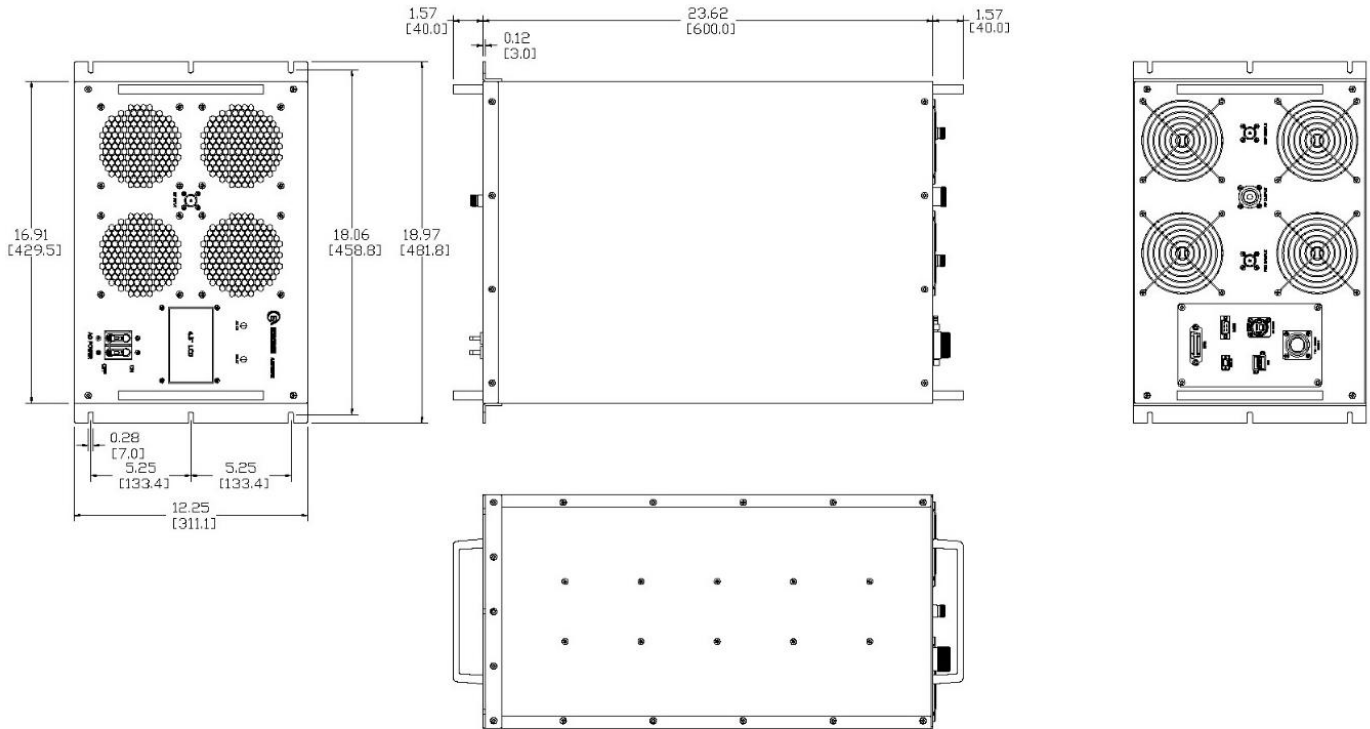
ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Shock & Vibrations	Normal truck transportation	

MECHANICAL SPECIFICATIONS

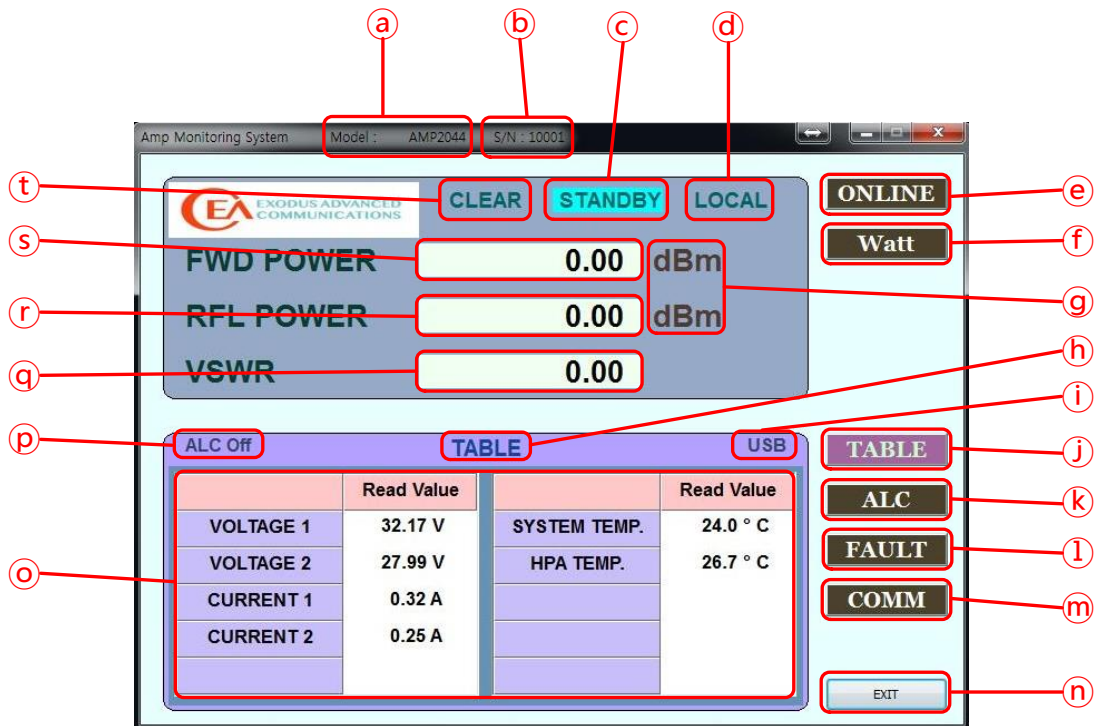
Parameter	Specification	Notes
Dimensions W x H x D	430 x 311 x 600 mm	7U - Excluding handles
Weight	40 Kg. Nom	
RF Connectors In / Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
FUNCTIONS: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Time counter	Ethernet RJ-45 TCP/IP, USB, RS422/485 IEEE-488 GPIB Interface	

OUTLINE DRAWING



REMOTE CONTROLLER INTERFACE SOFTWARE

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.



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IEEE-488 COMMAND LIST

Command	Function	Units
*R!	Sets remote mode	
*L!	Sets local mode	
*Q!	Select remote mode or local mode	
*IDN?	Returns IEEE-488 Controller ID	
ID?	Returns the product model number	
SETID	Sets the product model number	
SN?	Returns the product serial number	
SETSN	Sets the product serial number	
DATE?	Returns the product date	
DATE	Sets the product date	
TIME?	Returns the product time	
TIME	Sets the product time	
TEMPerature? 0 or 1,C or F	Returns the system (0) or HPA(1) temperature °C or °F	°C / °F
OVERTemperature? 0 or 1,C or F	Returns the system (0) or HPA(1) over temperature °C or °F	°C / °F
OVERTemperature 0 or 1,set_value,C or F	Sets the system(0) or HPA(1) over temperature °C or °F	°C / °F
FORward? dBm or Watt	Returns forward power output dBm or W	dBm/Watt
FEFlected? dBm or Watt	Returns reflected power output dBm or W	dBm/Watt
VSWR?	Returns VSWR value	
VOLtage? 0 or 1	Returns voltage1(0) or voltage2(1)	V
CURRent? 0 or 1	Returns current1(0) or current2(1)	A
ATTENUation?	Returns system attenuation value	dB
ATTENUation set_value	Sets system attenuation value	dB
ALC?	Returns system ALC value and ALC ON(1) or OFF(0)	dBm
ALC 0 or 1,set_value	Sets system ALC ON(1) or OFF(0), value	dBm
OVERINput?	Returns over input alarm value	dBm
OVERINput set_value	Sets over input alarm value	dBm
ONline?	Returns status ONLINE(1) or STANDBY(0)	
ONline 0 or 1	Sets system ONLINE(1) or STANDBY(0)	
Fault?	Returns Fault message 0: No fault 1: Over Input alarm	



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	2: Temp alarm 3: Over current 4: Voltage alarm 5: VSWR alarm	
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- Command syntax example
 - System over temperature setting: Set value 75°C
OVERT 0,75,C
overt 0,75,C
Overt 0,75,C
OVERTEMperature 0,75,C
overtemperature 0,75,C
Overtemperature 0,75,C