HD31209
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 6.0 GHz	
Power Output @ P1dB GCP	200 Watt Min	CW
Power Gain	53 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB Max	
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	At rated output
Non Harmonic Spurious	60 dBc Min	
Operating Voltage	180 - 240 VAC	
Power Consumption	1500 Watt Max	At rated output
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

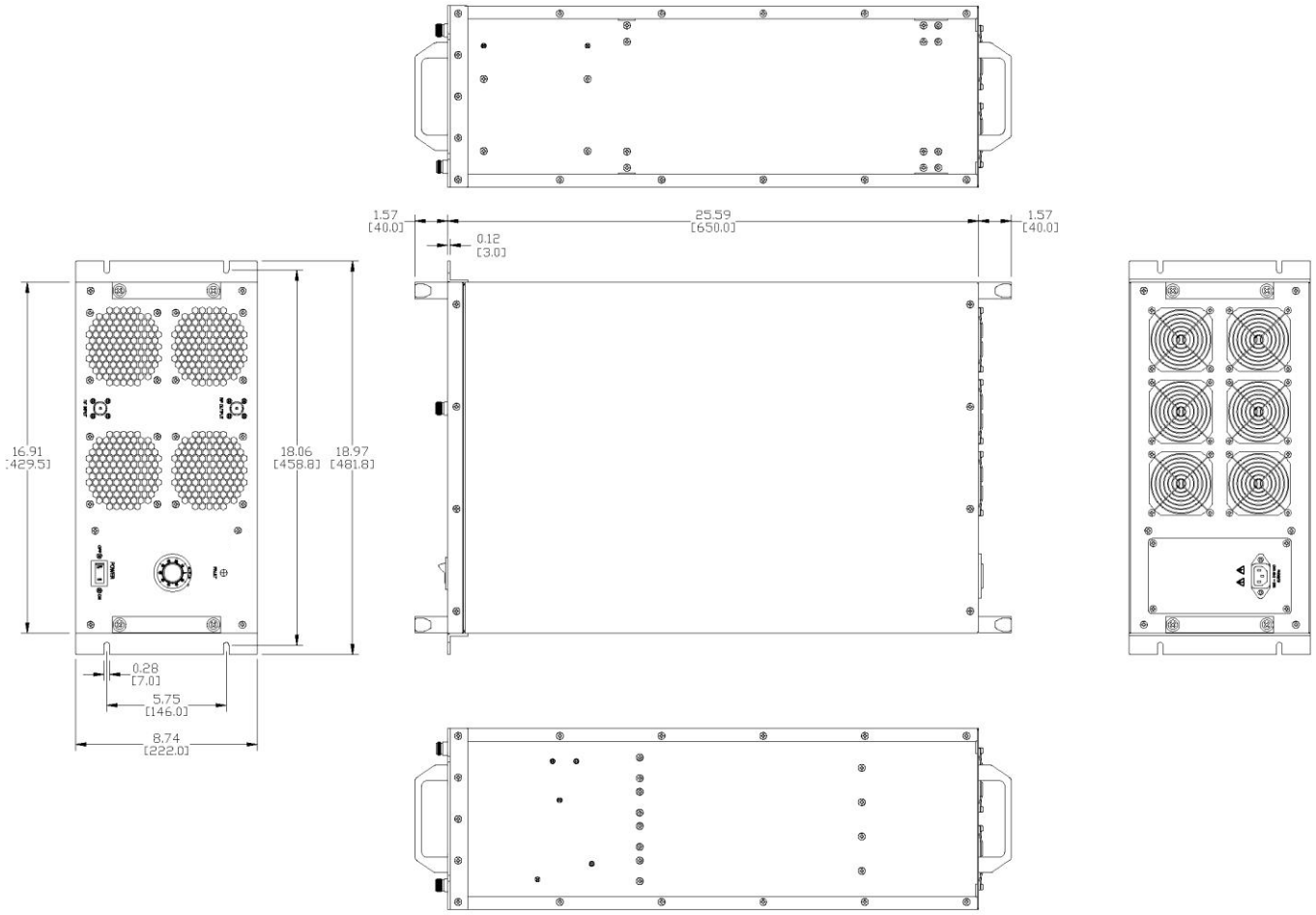
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	R5U Rack Mount Chassis	See outline drawing
Weight	35 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface	Remote Bluetooth application

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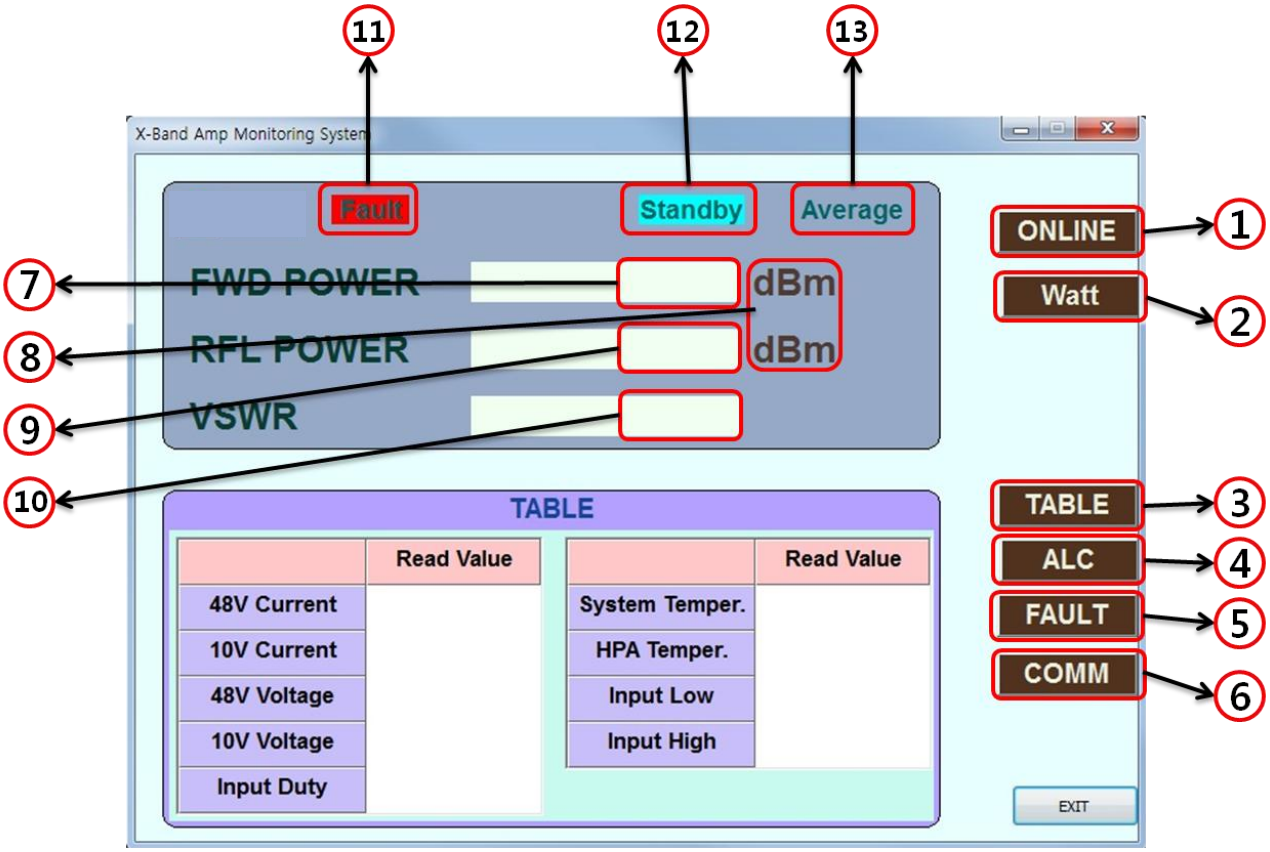
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OUTLINE DRAWING



332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
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Basic Optional UI Display Interface



1) ONLINE/STANDYBY: HPA ON/OFF.
2) Watt/dBm: OUTPUT POWER UNIT.
3) TABLE: HPA State Table.
4) ALC: Auto Level Control.
5) FAULT: Display alarm messages.
6) COMM: Set the communication method.
7) Display Forward Output Power dBm or W.
8) Output Power Unit dBm or W.
9) Display Reflected Output Power dBm or W.
10) Display VSWR Value.
11) Display Fault or Clear State.
12) Display Standby or Online State.
13) Display Output Power Average or Peak.