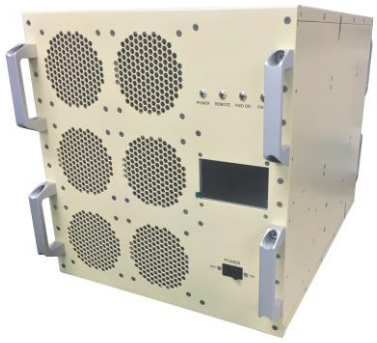
HD32092
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for high power - P-Band pulse applications
Built-in control, monitoring and protection circuits
Versatile interface options
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	500 - 1000 MHz			
Peak Output Power	10,000 Watt Min			Into 50 Ω
Power Gain	70 dB Min			Pin=0dBm for full rated Pout
Power Gain Flatness	+1.5 / -0 dB Max			Constant input power
Pulse Characteristics	**Width**	**Duty Cycle**	**PRF**	PRF up to 2KHz with 25 µS pulse width and up to 10KHz with 250 nS pulse width
	0.25 - 25 µS	4.0 % Max	1 - 10 KHz	
Input Return Loss	-12 dB Max			Relative to 50 Ohm
Harmonics	-20 dBc Max			At rated output
Spurious	-60 dBc Max			Non-harmonics
Noise Quieting	-80 dBm/MHz Max			
Operating Voltage	208 VAC, ±10 %, 50-60 Hz ±10 %			3-Phase
Efficiency	>10 %			At rated Pout
Max Input Power Protection	+3 dBm			Without damage for 1 min Nominal input for rated output is 0dBm
Load VSWR Protection	∞ : 1 @ rated Pout			Without damage for 10 Sec. System will shutdown when greater than 3:1 VSWR is detected

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
Altitude Operating / Storage	2500 meter Min	
Shock / Vibration	12G MIL-STD-810F	

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

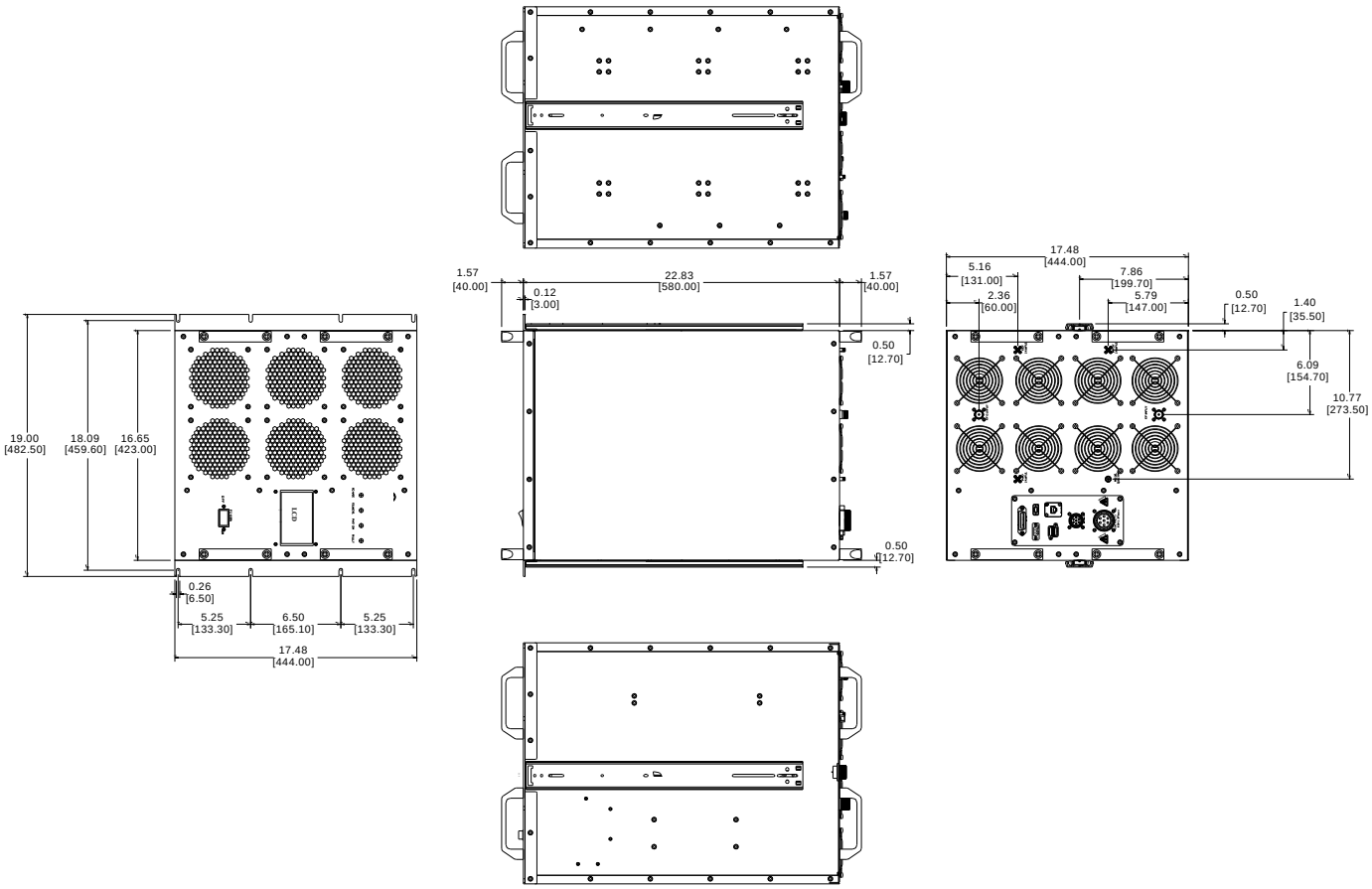
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MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	423 x 444 x 580 mm	10U without handles
Weight	90 Kg. Max	
RF Connectors Input / Output / Sample Port	Type-N Female	Rear Panel
AC Power Connector	MS3102A24-10P	Rear panel, or equivalent
GPIB / Remote Connectors	3549-1002 / MS3102A16S-1S	Rear panel, or equivalent
Noise Quieting connector	TNC female	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS232/RS422/485 Optional GPIB IEEE	Rear panel

OUTLINE DRAWING

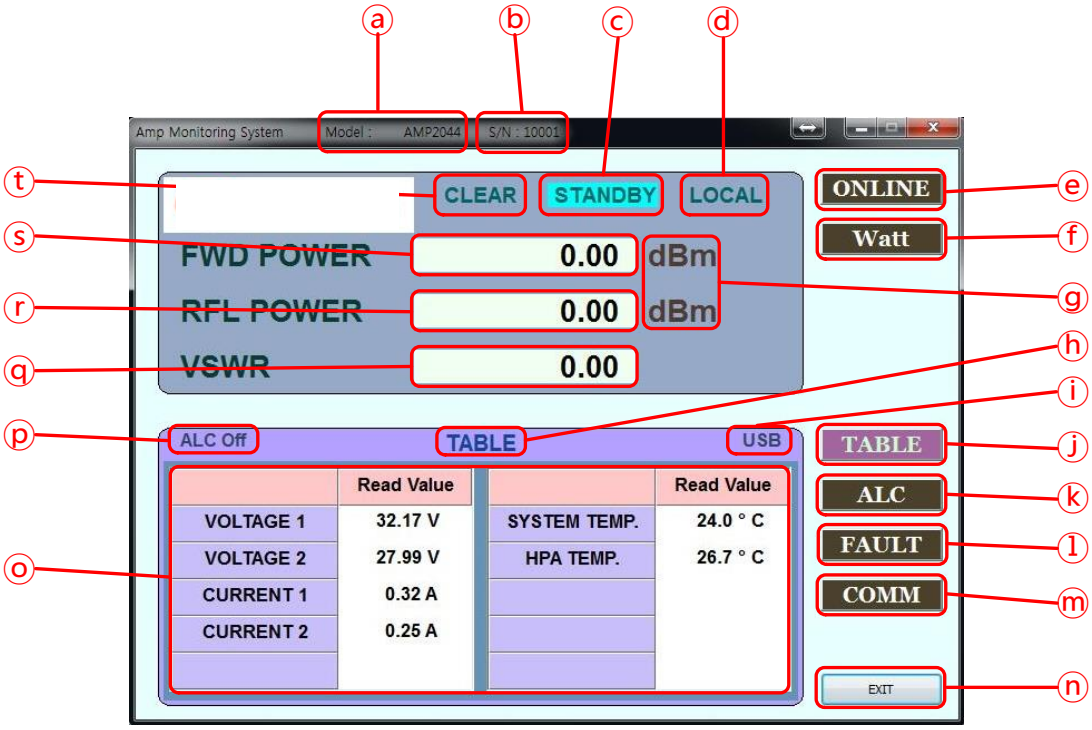


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CONTROLLER - PRIMARY (MAIN) WINDOW



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.

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