



AMP2121-3500-LC SOLID STATE HIGH POWER AMPLIFIER



FEATURES

Rack Integrated Cabinet Amplifier System
Class A/AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	80 - 1000 MHz	CW
Power Output	3500 Watt Min	4KW Typ
Power Gain	66 dB Min	
Power Gain Flatness	5.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-20 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	220/240 VAC, 3-Phase	
Power Consumption	32 KW Max	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto-shutdown

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

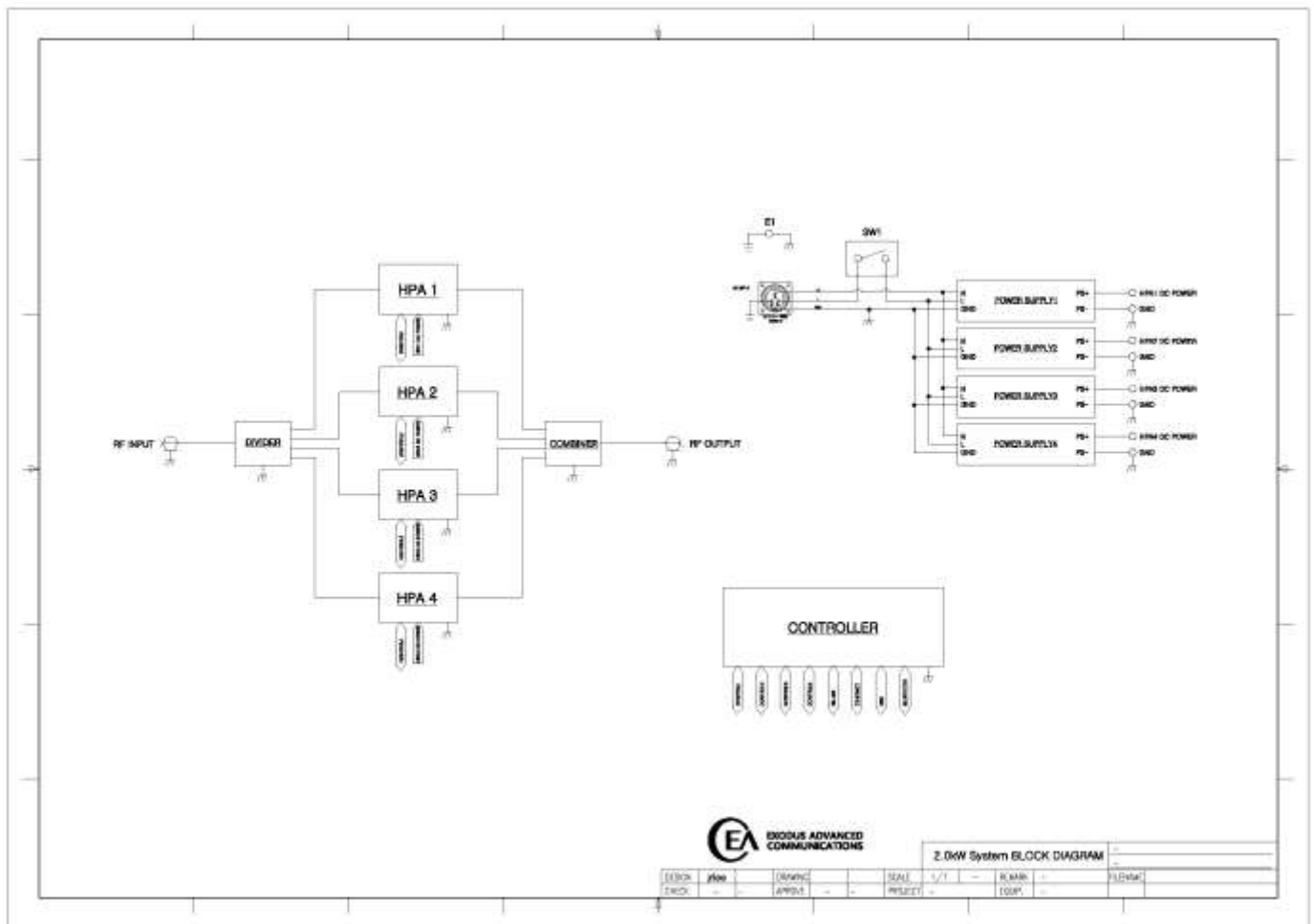
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	22"W x 36"D x 72"H	1 x 32U Rack Mount Cabinet
Weight	1200 lbs. Typ	
RF Connectors In/Out/Sample	Type-N Female 1 5/8" Female	RF Input/Sample Front Panel RF Output Rear Panel
AC Power	MS Style	Or equivalent
Cooling: Built in Hybrid Quiet-Cool	60 - 65 dBA Typ	Close loop liquid cooling
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB (Optional) GPIB Interface	Remote Bluetooth application (Optional)

OUTLINE DRAWING

BLOCK DIAGRAM & OUTLINE DRAWING

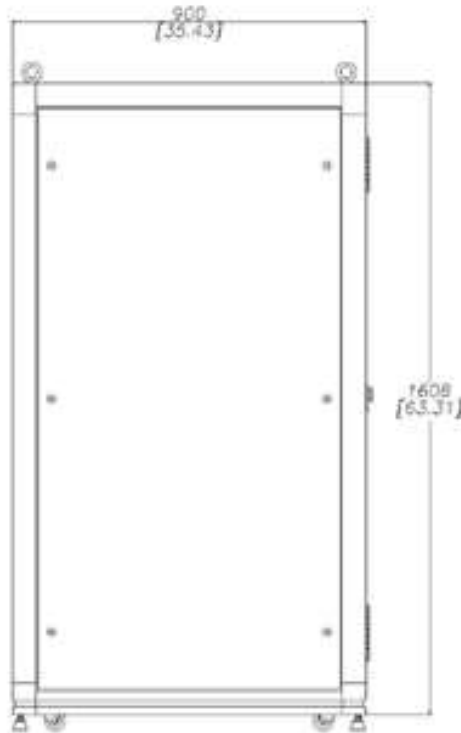
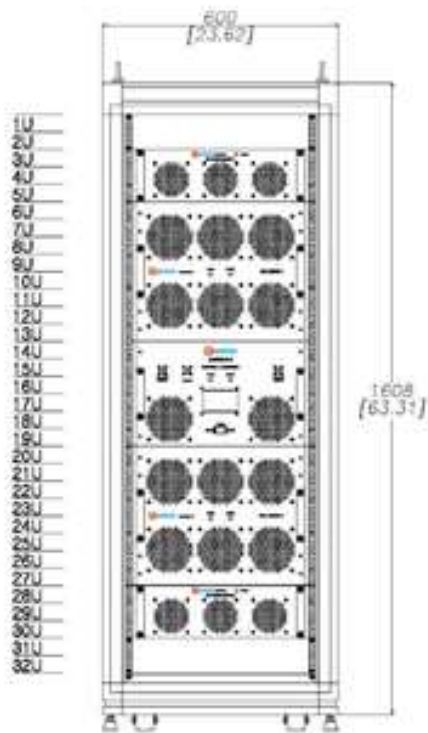
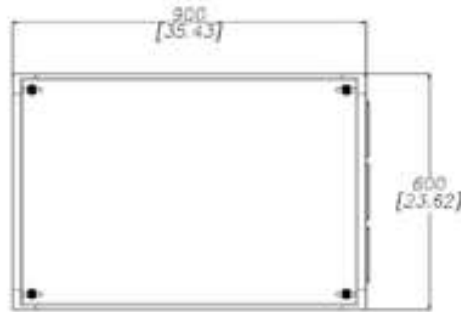
● BLOCK DIAGRAM



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● SYSTEM VIEW

1. Rack : C2F195636BL
- 32U Rack
2. CONTROL/COMBINER :
3. HPA SYSTEM : * 2ea
4. DC POWER SUPPLY : * 2ea
4. Blanking Panel : * 2ea
5. UNIT : mm / [inch]



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● FRONT VIEW

