HD31202
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, and general communication applications
Small form factor, rack mountable system
Class A/AB linear design using high power advanced devices
Instantaneous ultra-wide bandwidth
Suitable for all signal channel modulation applications
Built-in protection circuits with extensive monitoring
Optional all remote-control platforms
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50 Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	0.8 - 2.5 GHz	
Power Output @ Psat (CW)	1000 Watt Min	CW or Pulse
Power Output @ P1dB	300 Watt Typ	
Power Gain	60 dB Min	0dBm or less for rated Pout
Gain Adjustment Range	20 dB Min	Local or remote
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	180 - 240 VAC, 3-Phase	47-63 Hz
Power Consumption	6.5 KW Max	At rated Pout
Input Power Protection	+8 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit[2]
Sample Port (optional)	-60 dB Nom	N-Female

1. Units with optional digital monitor and control, for basic units <10 Sec without damage
2. Units with optional digital monitor and control, for basic units <1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non Condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3. MIL-Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	421 x 353 x 800 mm	8U, Rack Mount Chassis
Weight	53Kg	
RF Connectors In/Out/Sample (optional)	Type-N Female / 7/16 Female / Type-N-Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS3102E22-22P	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

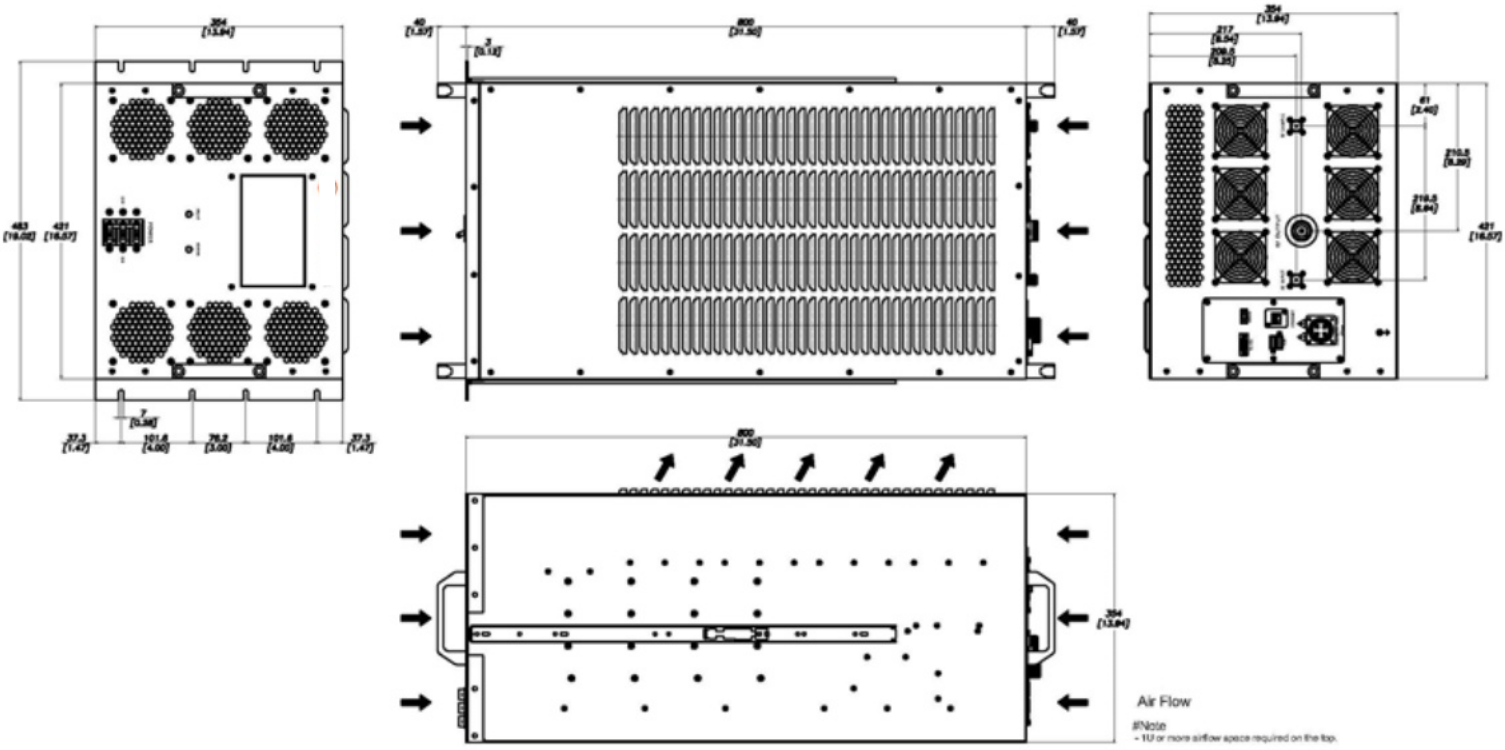
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option RCI: Rack Cabinet Integration	Cabinet Height specified at time of order	Option RCI: (quoted separate)
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	8-points standard[4]

4 Consult with factory if additional points would be required

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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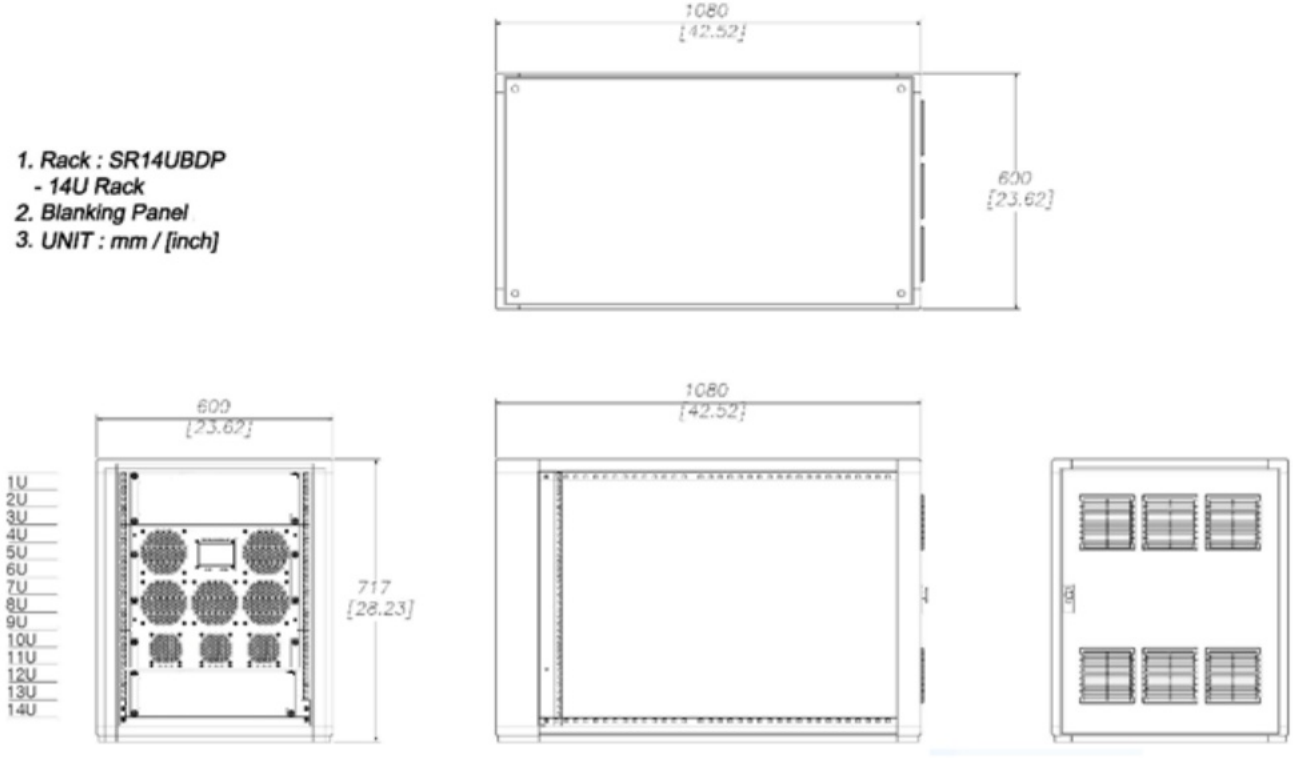
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OUTLINE DRAWING

Shown with optional Rack Cabinet Integration

1. Rack : SR14UBDP
   - 14U Rack
2. Blanking Panel
3. UNIT : mm / [inch]



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