HD35158
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, and general communication applications.
Small form factor, rack mounted 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

Parameter	Specification	Notes
Operating Frequency Range	10 kHz - 250 MHz	
Power Output @ Psat	2500 Watt Min	CW
Power Output @ P1dB	1200 Watt Typ	
Power Gain	64 dB Min	0dBm or less for rated Pout
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote capable
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-25 dBc Typ	54dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At P1dB
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208, 3-Ph, 47 - 63 Hz	Opt: 230/400VAC, 3-Ph
Power Consumption	13 KW Max	At rated Pout
Input Power Protection	+8 dBm Max[1]	
Load VSWR Protection	6 : 1 Max[2]	Foldback @ preset limit[2]
Sample Port Coupling (optional)	-60 dB	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	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	600 x 1760 x 1150 mm	36U cabinet
Weight	150 Kg. Typ	
RF Connectors In/Out/Sample	Type-N Female / 7/16 DIN / Type-N-Female	Front or rear panel
AC Power / Interface Connector	MS / 9-Pin D-Sub	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.

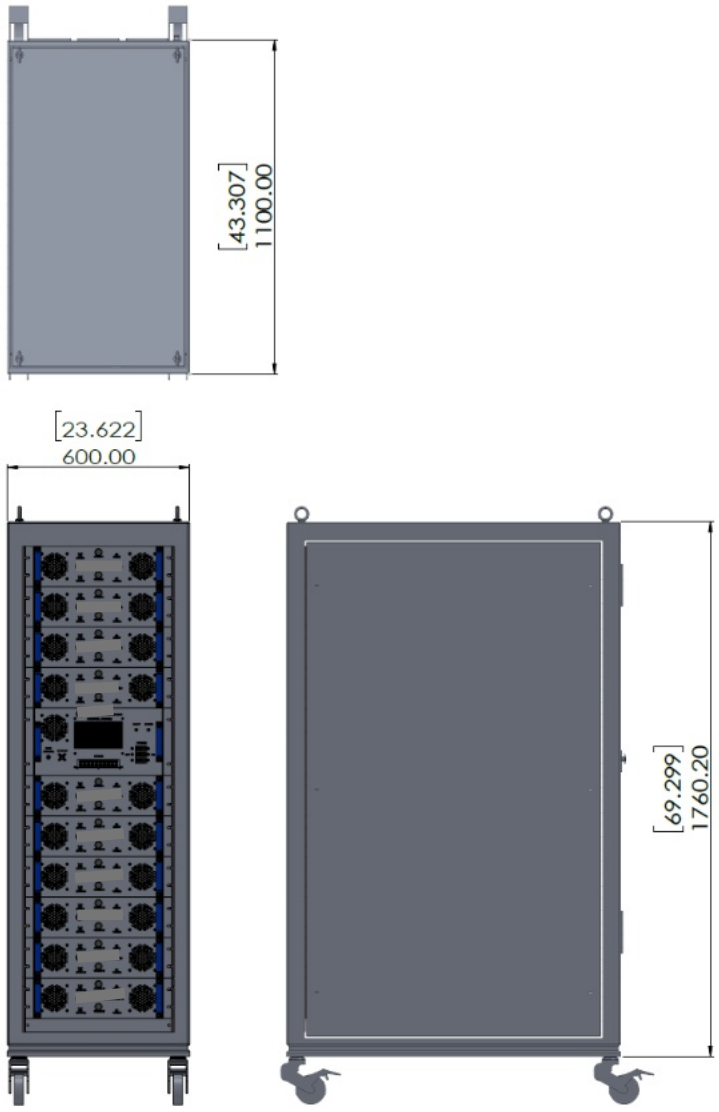
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option 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 Option DMC Purchase)	Offset correction entry for +/- 0.2dB accuracy	12-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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