HD35178
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
Small form factor, rack mounted system
Class A/AB Linear design
High power advanced technology devices
Instantaneous ultra-wide bandwidth
Built-in protection circuits, with extensive monitoring
Local LCD & remote flexible interfaces
High efficiency, with unprecedented reliability and ruggedness

ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	CW or Pulse
Power Output @ Psat	1000 Watt Min	1200 Watt Typ
Power @ P1dB	600 Watt Min	700 Watt Typ
Power Gain	60 dB Min	0dBm or less for rated Pout
Power Gain Flatness	5 dB p-p Max	At rated input power
Gain Adjustment Range	20 dB Min	Local or remote
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208, 3-Ph, 47 - 63 Hz	Opt: 230/400VAC, 3-Ph
Power Consumption	20 KW Typical	At rated output
Input Power Protection	+3 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
Sample Port (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	40U standard rack height	Alternate height TBQ
Weight	450 Kg. Nom	450 Kg. in rack cabinet
RF Conn. In / Out / Sample (optional)	N-Female / WRD650 (rear) / N-Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS Style	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, USB, RS422 or RS485, Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

HD35178
SOLID STATE HIGH POWER AMPLIFIER

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 purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	13-points standard[4]

4 Consult the factory if additional points are required

OUTLINE DRAWING

System Outline in 40U Standard Rack Cabinet
X4 8U PA drawers, x1 3U Controller drawer x5 1U blanks
SHOWN WITH LCD DIGITAL CONTROLLER





338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

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