HD35203
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 wide bandwidth
Built-in protection circuits, forward RF Sample port
High reliability and ruggedness with extensive monitoring
Remote-control platforms included
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification		Notes
Operating Frequency Range	18.0 - 40.0 GHz		
Power Output @ Psat	18.0 - 37.0GHz	80 Watt Min	CW or Pulse
	37.0 - 40.0GHz	60 Watt Min	
Power Gain	49 dB Min		0dBm or less for Rated Power
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Gain Adjustment Range	20 dB Typ		Local or remote capable
Input Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		39dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	120/208 VAC, 3 Φ, 47 - 63 Hz		Avail. 230/400VAC, 3-Phase
Power Consumption	4000 Watt Max		At rated Pout
Input Power Protection	+5 dBm Max[1]		
Load VSWR Protection	4 : 1: Max[2]		Foldback @ preset limit

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 ºC	
Storage Temperature	-40 to +85 ºC	
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	430 x 266 x 800 mm	6U, excluding handles
Weight	40 Kg.	
RF Connectors In/Out/Sample (optional)	2.9 mm-F / WRD180 / 2.9mm-F	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	
STANDARD: Digital Monitor & Control[4] FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	 BNC Female on rear panel

4 DMC option may reduce Pout by 1dB.

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

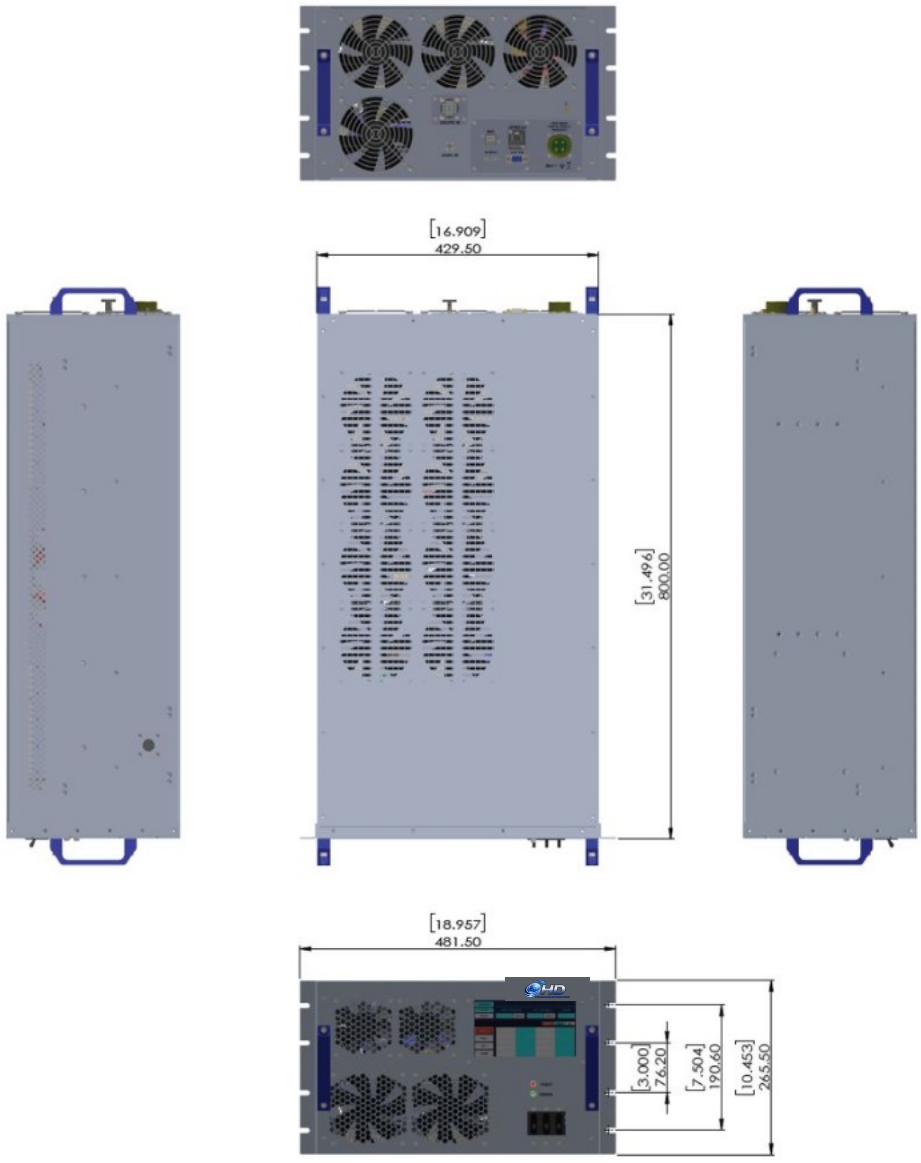
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

HD35203
SOLID STATE HIGH POWER AMPLIFIER

AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, Type K-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type K-Female	Front or rear panel
Option DCP: DC Power	Various ranges available 20-40VDC	Auto-Ranging for most models
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	12-points standard[5]

OUTLINE DRAWING
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.