HD32865
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, and general communication applications
Suitable for linear CW and composite signal channel modulation standards & 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, forward & reflected RF Sample ports
High reliability and ruggedness with extensive monitoring & protection circuits
All remote-control platforms included
High efficiency, with unprecedented reliability and ruggedness
LEGACY PN: AMP2041-1



ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 2.5 GHz	
Power Output @ Psat	2.2 KW Min / 2.5KW Typ	CW
Power Output @ P1dB	1.6 KW Typ	1.4 KW Min
Power Gain	63 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Max / ±1.5dB Typ	Constant input power
Gain Adjustment Range	25 dB Min	>30dB Typ
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	<-30 dBc Typ	54dBm/Tone, Δ = 1MHz
Modulation	AM, FM, or Pulse modulation	Faithfully reproduced
Harmonics	-12 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208 VAC, 3-Ph	47 - 63Hz
Power Consumption	18 KW Max	AC Connector: MS3102 32-17P (4-pin connector).
Input Power Protection	+3 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
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 +50ºC	
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

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.

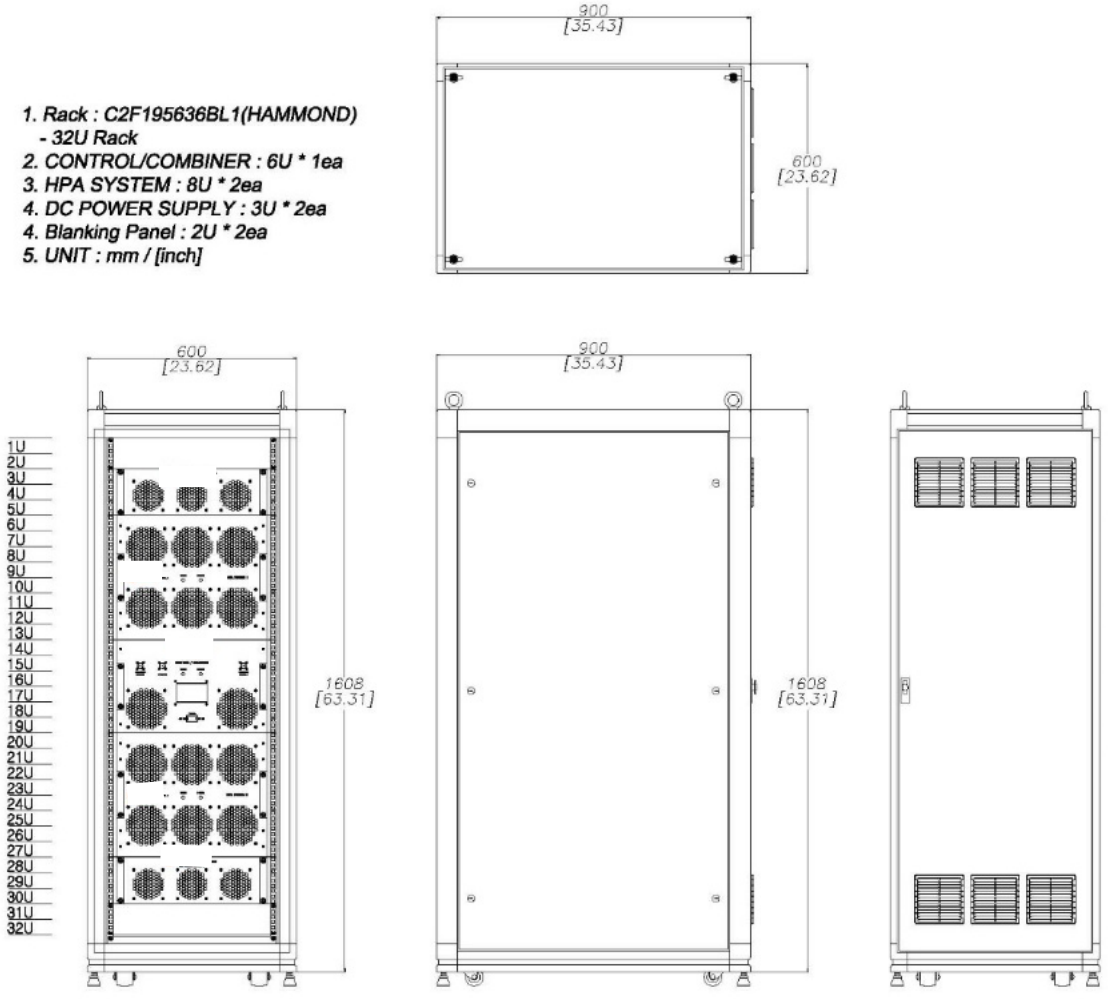
HD32865
SOLID STATE HIGH POWER AMPLIFIER

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	Rack Cabinet	32U
Weight	600 lbs. Nom.	
Safety Interlock Connector	Rear Panel	Contact open Interlock enable
RF Connectors Input/Output/ Sample (optional)	Type N-F / 1 5/8" Female Type N-F	RF Input/Sample Front Panel Std. RF Output
Cooling	Built in forced air	Air entry in front /out rear panel
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

OUTLINE DRAWING
(3U+8U+6U+8U+3U) System Outline

1. Rack : C2F195636BL1(HAMMOND)
   - 32U Rack
2. CONTROL/COMBINER : 6U * 1ea
3. HPA SYSTEM : 8U * 2ea
4. DC POWER SUPPLY : 3U * 2ea
4. Blanking Panel : 2U * 2ea
5. UNIT : mm / [inch]

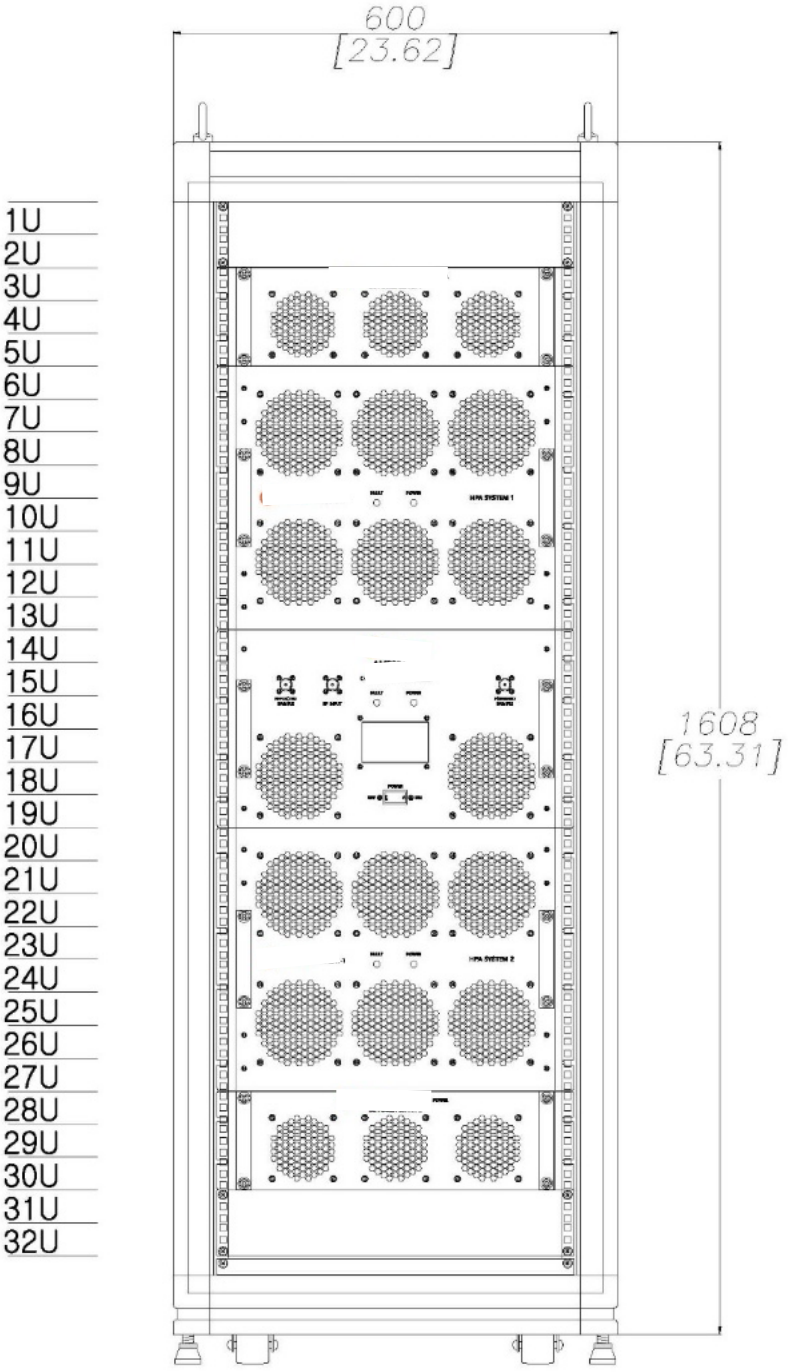


338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

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

HD32865
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING
(3U+8U+6U+8U+3U) System Front

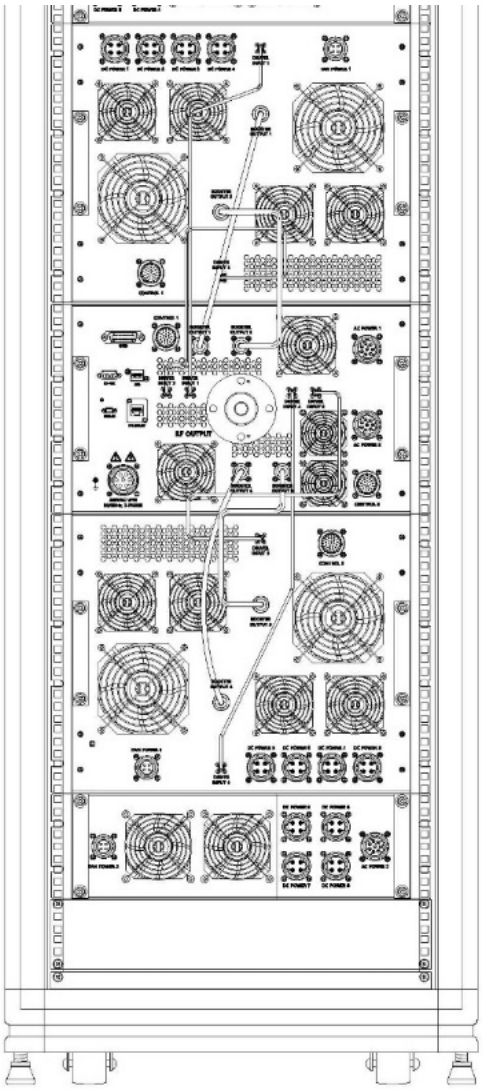


338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

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

HD32865
SOLID STATE HIGH POWER AMPLIFIER

5U
6U
7U
8U
9U
10U
11U
12U
13U
14U
15U
16U
17U
18U
19U
20U
21U
22U
23U
24U
25U
26U
27U
28U
29U
30U
31U
32U



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.