

AMP2085F-1LC

SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
 Rack mounted cabinet system
 Class A/AB advanced technology high power linear design
 Instantaneous ultra-wide bandwidth
 Designed for EMI/RFI, lab, and general communication applications
 Suitable for linear CW and composite signal channel modulation standards & applications
 Built-in protection circuits, with extensive monitoring
 High reliability and ruggedness
 Local LCD & remote flexible interfaces



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.8 - 7.3 GHz	
Power Output@ Psat	800 Watts Min	CW or Pulse
Power Output @ P1dB	400 Watt Typ	
Power Gain	59 dB Min	0dBm or less for Rated Power
Power Gain Flatness	6 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	
2-Tone Intermodulation (IMD)	-30 dBc Typ	49dBm/Tone, Δ=1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	220 / 380 VAC 3-Ø	Available 120/208 VAC 3-Ø
Power Consumption	12 KW Max / 10KW Typ	At rated output
Input Power Protection	+10 dBm Max ¹	
Load VSWR Protection	4 : 1: Max ²	Foldback @ preset limit
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 +70 °C	
Altitude	3000 meters	
Relative Humidity	up to 95 %	Non-condensing
Shock & Vibrations	Normal Transport ³	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	Rack Cabinet	32U H - (56" Panel space)
Weight	250 Kg. Nom	
RF Conn. Input/Output/Sample(optional)	N-Female / 7/16-Female / N-Female	Rear panel
AC Power	MS Style	Or equivalent
Cooling-Exodus Quiet Cool design	Closed-loop Air/liquid hybrid	Variable speed
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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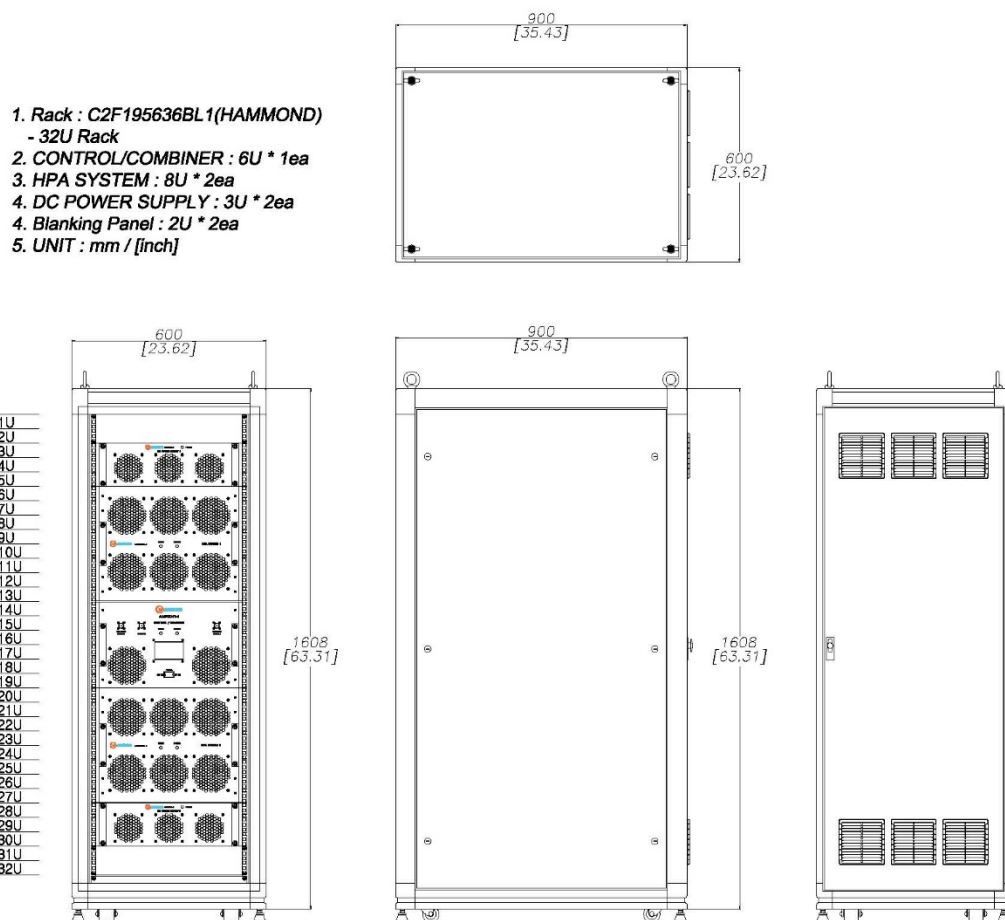
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AVAILABLE SPECIAL OPTIONS

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 purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	11-points standard ⁴

⁴ Consult with factory if additional points would be required

OUTLINE DRAWING



CONTROLLER - PRIMARY (MAIN) SCREENS

	a - Model: Amplifier model number b - STANDBY/ONLINE: Display STANDBY/ONLINE status c - CLEAR/FALUT: Display CLEAR/FAULT status d - STANDBY/ONLINE: Display STANDBY/ONLINE control e -STATUS: Displays fault & alarm monitors f - ALC: ALC menu button g - ETC: Screen selection button h - FWD POWER: Display FWD POWER value i - RFL POWER: Display RFL POWER value j - VSWR: Display VSWR value k - dBm/Watt: Display dBm/Watt selection & status L - dBm/Watt: Display dBm/Watt selection & status m - Volt_Current: Voltage & current monitor selection n - Duty_Temp: Pulse-Duty & temperature monitor selection o - Display status of the selected TABLE menu window
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5 item "n" for pulse amps only with Pulse parameter monitoring.