EXODUS ADVANCED COMMUNICATIONS

AMP40028
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
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
LEGACY PN: AMP4065A-1LC

ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification	Notes
Operating Frequency Range	18.0 - 26.5 GHz	
Power Output @ Psat	150 Watt Min / 200 Watt Typ	CW or Pulse
Power Gain	52 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Typ	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote capable
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	42dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120/208 VAC, 3-Ph, 47 - 63 Hz	Opt: 230/400VAC, 3-Ph
Power Consumption	4000 Watt Max	At rated output
Input Power Protection	+8 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
Sample Port Coupling (optional)	-50 dB Nom	2.92 mm K-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 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	421 x 353 x 850 mm	8U, excluding connectors
Weight	55 Kg. Nom	
RF Connectors In/Out/Sample (optional)	2.9 mm-F / WR42 / 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	
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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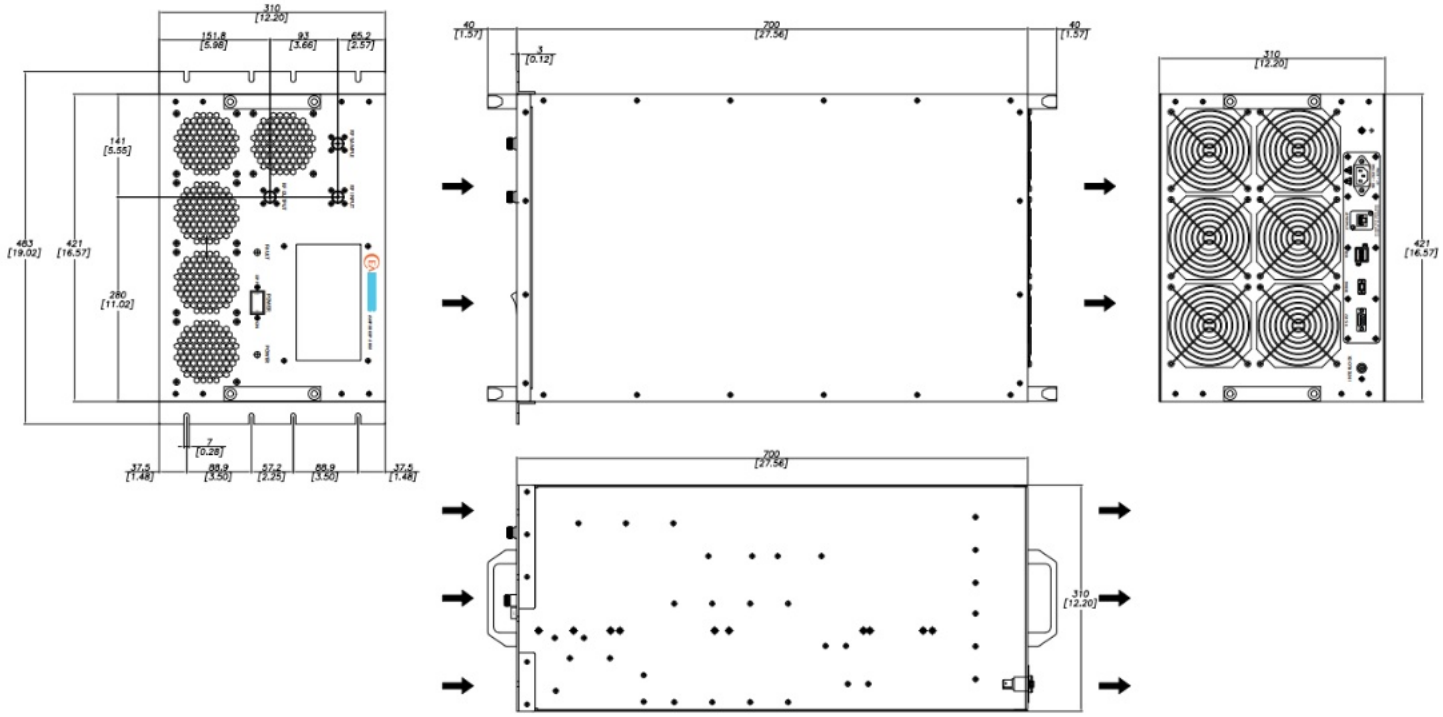
AVAILABLE SPECIAL OPTIONS

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 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	15-points standard[4]

4 Consult the factory if additional points are required

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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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