

AMP6034 SUITE SOLID STATE HIGH POWER AMPLIFIERS

FEATURES

Class A/AB linear Advanced technology design
Rack mounted system
Designed for 5G, broadband EMI/RFI, Lab, Comm. and EW applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness
Optional Integrated Synthesizer/Power Metering



ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

MODEL		AMP6034-10 ¹	AMP6034-20 ¹	AMP6034-40 ¹	AMP6034A-40 ¹
PARAMETERS	LIMIT	SPECIFICATIONS			
Frequency Range	Min	27 - 29 GHz			
Saturated Output Power CW	Min	10 Watt	20 Watt	35 Watt	40 Watt
Output Power @ P1dB CW	Typ	8 Watt	15 Watt	30 Watt	30 Watt
Power Gain	Min	40 dB	43 dB	46 dB	
Gain Flatness	Max	2 dB p-p			
Gain Adjustment Range	Min	20 dB			
Input Return Loss	Max	-10 dB			
Noise Figure	Max	10 dB			
Harmonics	Max	-20 dBc			
Non-harmonics Spurious	Max	-60 dBc			
Operating Voltage	Nom	100 - 240 VAC			
AC Power Consumption	Max	120 Watt	250 Watt	580 Watt	600 Watt
Input Power Protection	Max	+3 dBm ²			
Load VSWR Protection	Max	4 : 1: Max ³			

1 Units with optional Integrated Synthesizer, 3U chassis with mandatory 7" control-color display

2 Units with optional digital monitor and control, for basic units <10 Sec without damage

3 Units with optional digital monitor and control (will foldback @ preset limit)-basic units <1 minute at rated Pout,

ENVIRONMENTAL CHARACTERISTICS

PARAMETERS	SPECIFICATIONS
Operating Ambient Temperature	0 to +50 °C
Storage Temperature	-20 to +75 °C
Altitude	3000m
Relative Humidity	up to 95 % Non-condensing
Shock & Vibration	Normal transport

MECHANICAL SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	
Dimensions W x H x D	R2U rack mount	R3U rack mount
Weight	10 kg.	15 Kg.
RF Connectors In/Out	2.92 mm Female (Optional WR28 10/20W)	2.92 mm Female/ WR28
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Controller/coupler reduce output power by approx. 0.5dB.

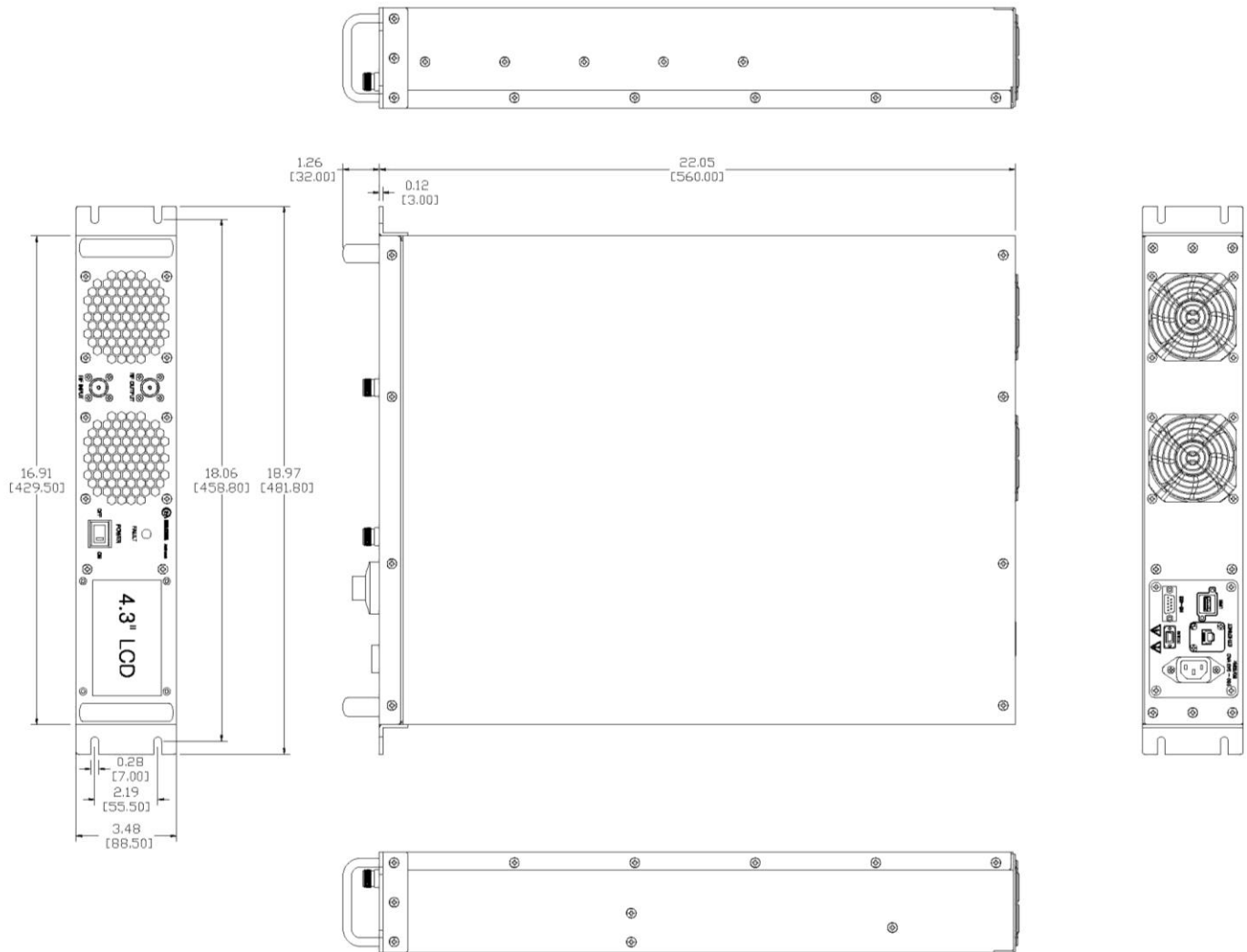
AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option IS: Integrated Synthesizer	Internal or External selections	Modulations: CW, Pulse, External
Option CPM: Calibrated Power Monitoring	Offset correction entry for +/- 0.2dB accuracy	5-points standard, every 500MHz ⁴
Option LC: Built in Quiet-Cool	Close circuit Air-liquid cooling	60 dBA Typ

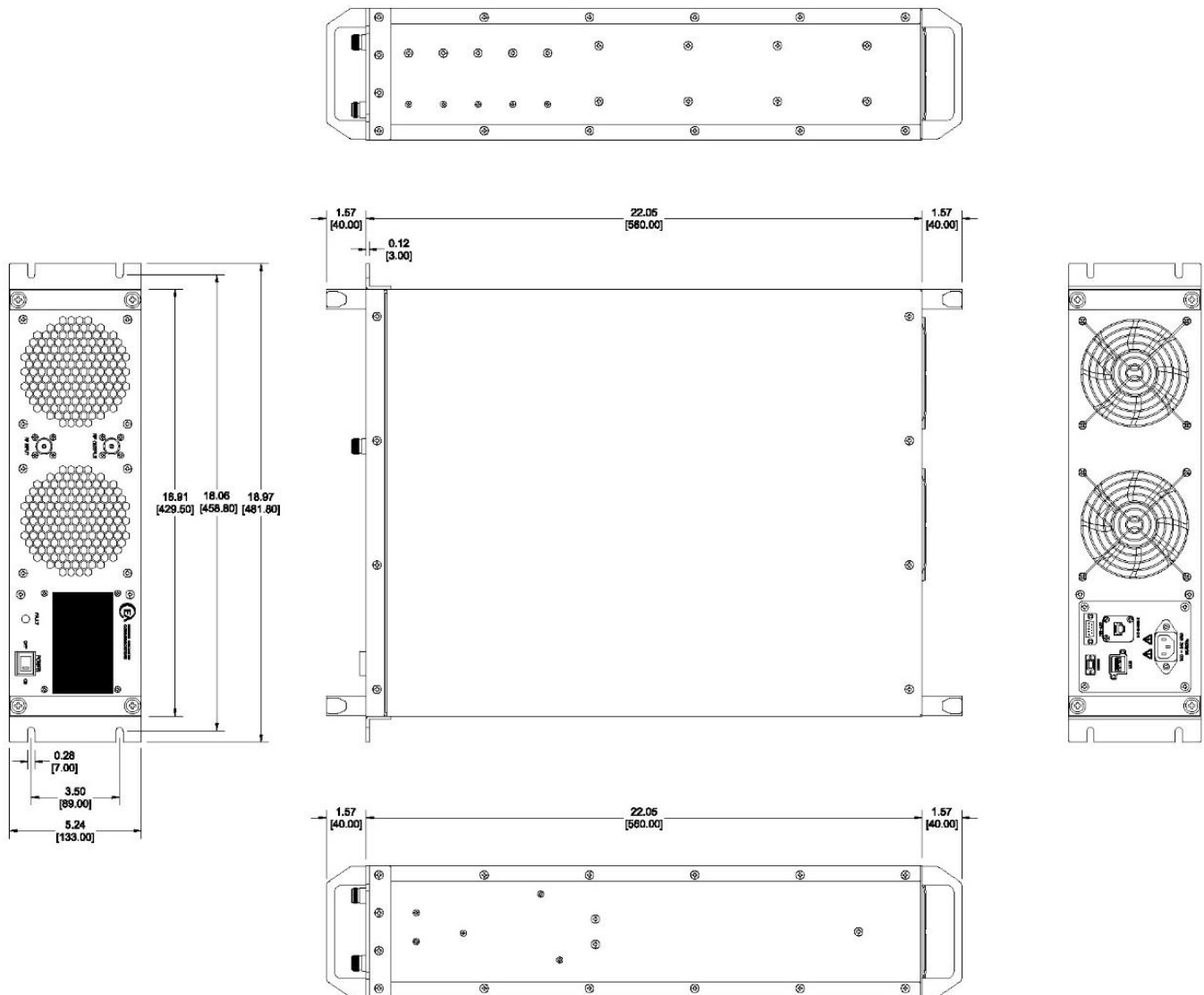
4 Consult with factory if additional points would be required

AMP6034 SUITE SOLID STATE HIGH POWER AMPLIFIERS

OUTLINE DRAWING-2U
Shown with optional LCD



OUTLINE DRAWING-3U
Shown with optional LCD



OUTLINE DRAWING-3U & Synthesizer Option
7" color touchscreen control & monitoring

