

1.5-30MHz/1000Watts/Rack Mount

Model Number: KB0001003S60A

The KB0001003S60A is a rack-mountable unit incorporating a universal voltage power supply and a built in forced air-cooling system. This amplifier subsystem utilizes LDMOS power device that provides excellent power density, high efficiency, low distortion and wide dynamic range. Due to robust engineering and employment of advanced broadband RF matching networks, combining techniques and qualified components, the amplifier achieves consistent performance with field proven reliability.

FEATURES:

- Instantaneous ultra broadband
- Suitable for CW, AM, and FM modulation type
- Compact and robust design
- Standard front panel manual gain adjust
- Unconditional stability and ruggedness

ELECTRICAL SPECIFICATIONS @ 220VAC, 25°C, 50Ω System

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	1.5		30	MHz
Output Power CW	P _{SAT}		1000		Watt
Power Gain	G _{1dB}		61		dB
Input Power for Rated P _{SAT}	P _{IN}		0		dBm
Power Gain Flatness	ΔG		±2		dB
Gain Adjustment Range	FGA		20		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @ P _{OUT} = 500W	H		-10		dBc
Spurious Signals	Spur		-50		dBc
Operating Voltage (1-phase)	V _{DC}		220		Volt
Power Consumption @ 1000W CW	P _D		4000		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack Mount	482 x 221 x605 (5U)+482 x 168 x605(4U)	Max
Weight	120 kg	Max
RF Connectors Input /Output	In:Type-N, Female; Output:Type-7/16-DIN	
Cooling	Built-in internal forced air cooling system	

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Ambient Temperature	-10		40	°C	
Storage Temperature	-15		45	°C	
Relative Humidity (non-condensing)			95	%	

PROTECTIONS

Input RF drive level without	+10 dBm	Max
VSWR protection	@ 3:1- PA output power will degrade to a safe operation level, and system will still work. @ >3:1 protection will make system shutdown.	
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >40°C	

Focus on Your Application

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Specifications subject to change without notice

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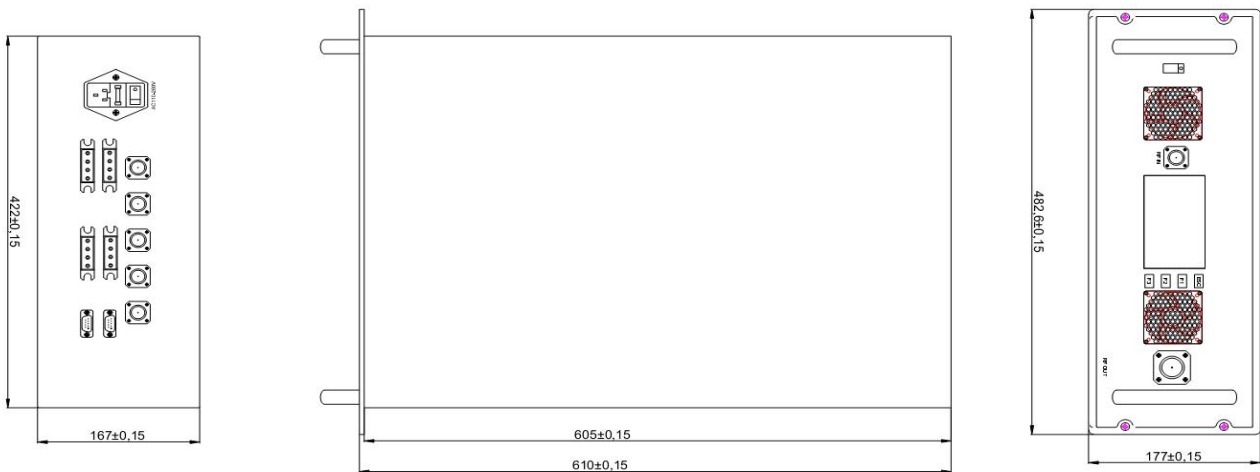
AVAILABLE OPTIONS (Selected options refer to the factory)

Description		LCD Touchscreen
Status Monitor	LCD controller	Digital Display, including FWD/REV Power indication (dBm or Watt scale), ALC On/Off, Standby mode, Fault indication
RS-232	Serial management of device	D-Sub 9-position Male
Gain	Controller, Front Panel	Gain Adjustment

I/O CONNECTOR-Monitor Display or RS-232

Pin#	Description	Specifications	Option FGA	LED
1	Reserved	Reserved		
2	Reserved	Reserved		
3	VVA	Gain control: Analog Voltage Range 0-5V Gain Control: 0V= Max. Attenuator, 5V=Min		
4	Shutdown	Amplifier Disable: TTL Logic Low(<0.7V)		
5	Current Monitor	Analog voltage relative to IDD @ 100mV per Ampere		
6	Reserved	Reserved		
7	Reserved	Reserved		
8	Reserved	Reserved		
9	Reserved	Reserved		

OUTLINE DRAWING(All dimensions in mm [inch])



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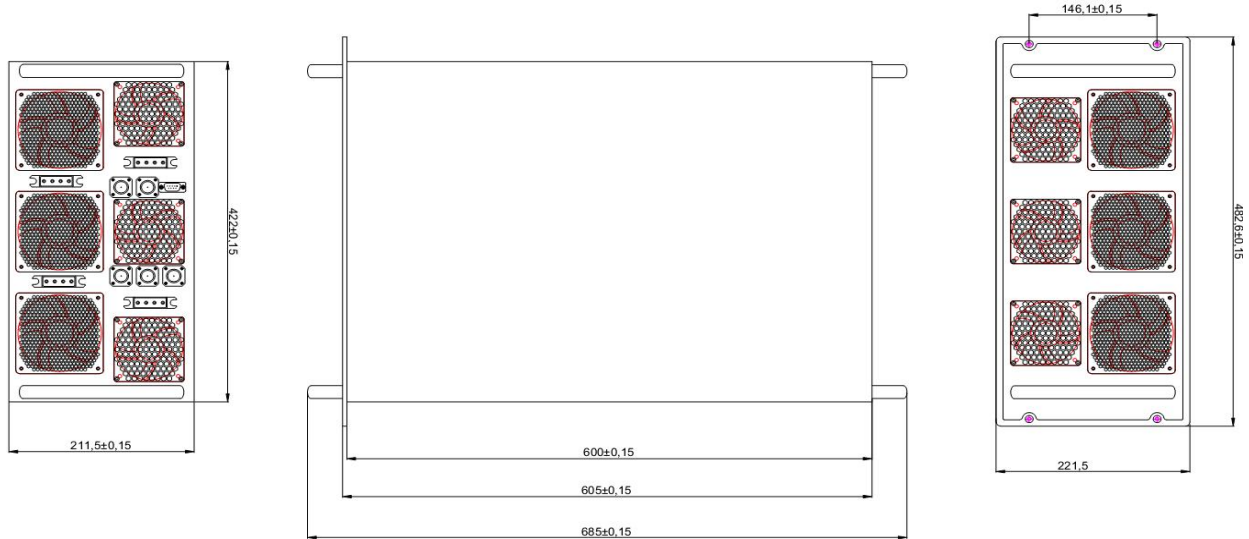
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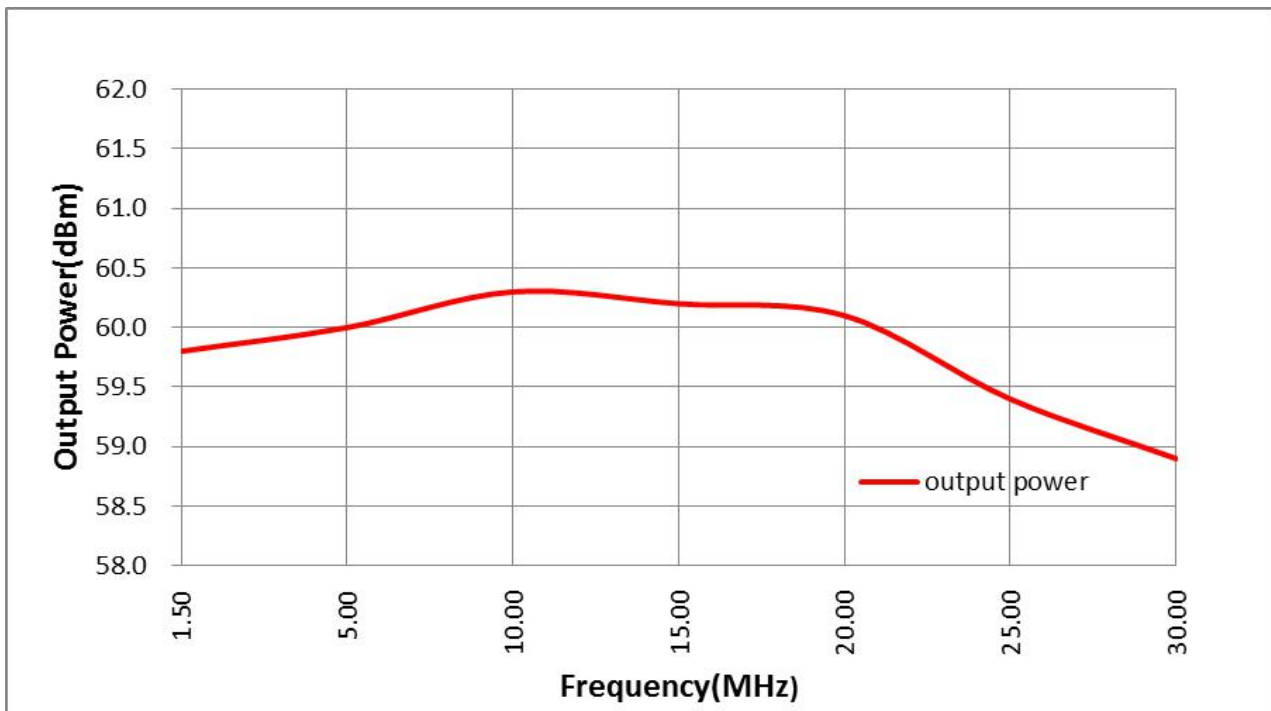
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TYPICAL PERFORMANCE PLOTS



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