

## 6-18GHz/100Watts/Rack Mount

## Model Number: KB60180S50A

The KB60180S50A is a rack-mountable unit incorporating a universal voltage power supply and a built in forced air-cooling system. This amplifier subsystem utilizes GaN 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	6		18	GHz
Output Power CW	P <sub>SAT</sub>		100		Watt
Power Gain @ P <sub>SAT</sub>	G <sub>P</sub>		50		dB
Input Power for Rated P <sub>SAT</sub>	P <sub>IN</sub>		0		dBm
Power Gain Flatness	ΔG <sub>p</sub>		±2.5		dB
Input Return Loss	S <sub>11</sub>			-10	dB
Harmonics @ P <sub>OUT</sub> =80W	H		-20	-11	dBc
Spurious Signals@ P <sub>OUT</sub> =80W	Spur		-60		dBc
Input/Output Impedance	Impedance		50		dBc
Operating Voltage (single -phase)	V <sub>AC</sub>	180	220	240	Volt
Power Consumption @80W CW	P <sub>D</sub>		1300		Watt

### MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack Mount	482 x 177 x440 mm [19x6.9x18.4 inch] (4U)	Max
Weight	30kg [66 lbs]	Typ
RF Connectors Input /Output	Type-N, Female / T Type-N, Female	
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	-40		85	°C	
Relative Humidity (non-condensing)			95	%	

### PROTECTIONS

Input RF drive level without damage	+5 dBm	Max
VSWR protection@80W	@5:1- PA output power will degrade to a safe operation level, and system will still work. @ >5:1 protection will make system shutdown.	
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >40°C	

### AVAILABLE OPTIONS (Selected options refer to the factory)

Description	LCD Screen
Status Monitor	Digital Display, including FWD/REV Power indication (dBm or Watt scale), Standby mode, Fault indication
RS-232	D-Sub 9-position Male

### Focus on Your Application

\*Chengdu Keylink Microwave Technology Co., Ltd.\*

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Specification subject to change without notice

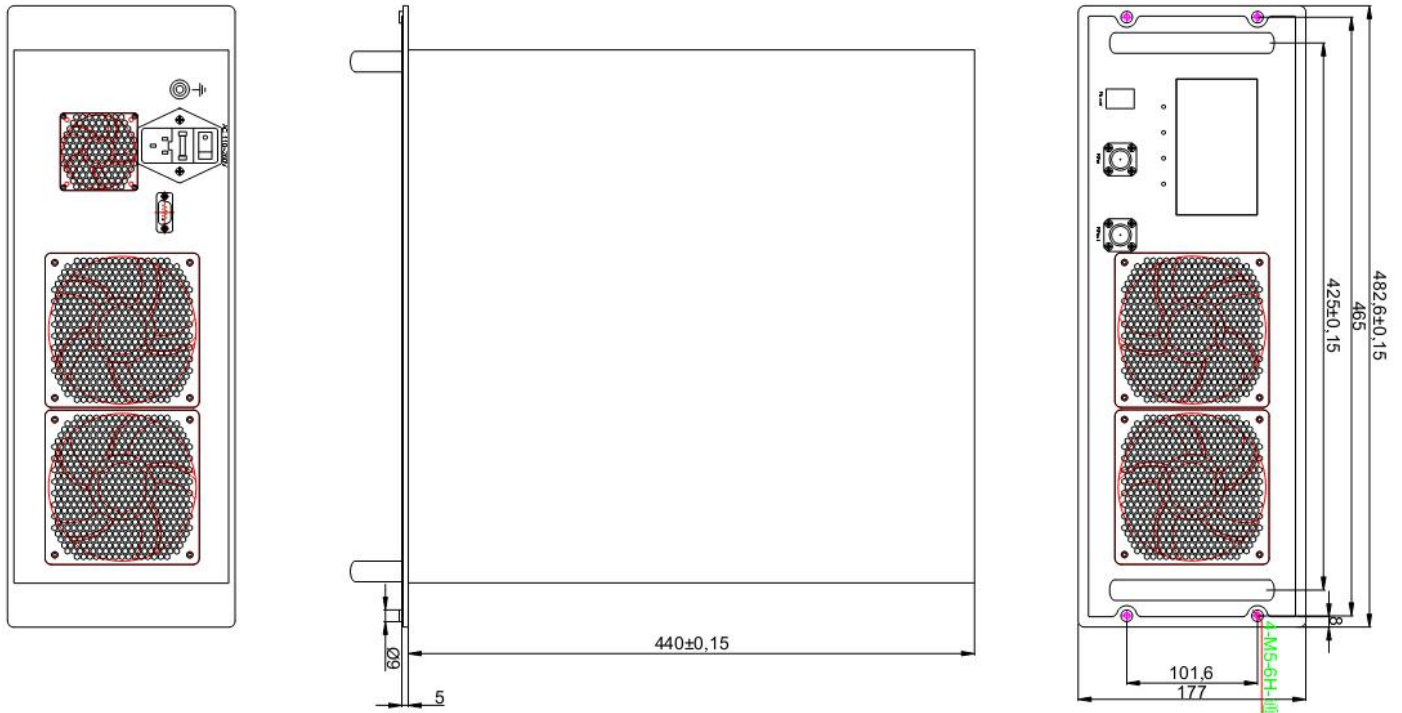
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I/O CONNECTOR-Monitor Display or RS-232

Pin#	Description	Specifications	Option FGA	LED
1	FWD	Forward detected power		
2	REV	Reverse detected power		
3	RS232(-) (Optional)	Transmit data-R x D		
4	RS232(+) (Optional)	Transmit data-TxD		
5	GND	Transmit data-GND		
6	Reserved	Reserved		
7	Reserved	Reserved		
8	Reserved	Reserved		
9	Reserved	Reserved		

OUTLINE DRAWING



All dimensions in mm

TYPICAL PERFORMANCE PLOTS

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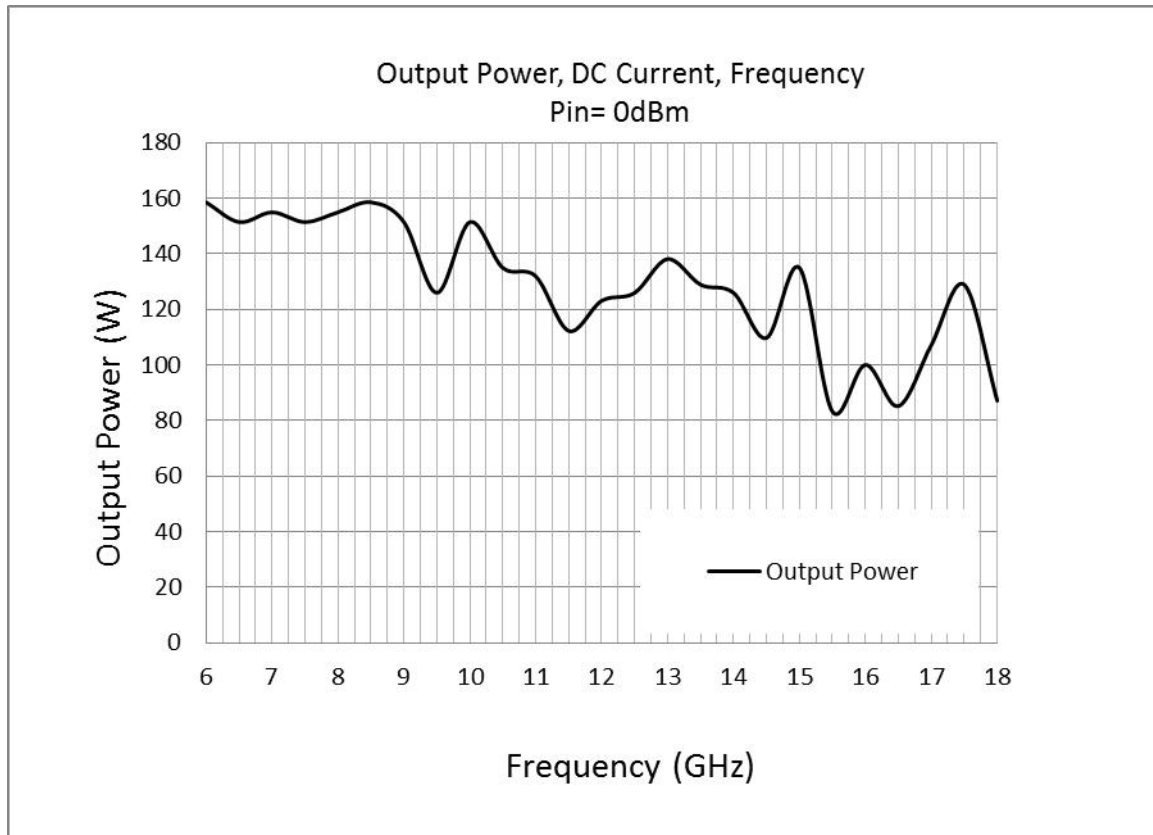
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**Note:**

1. This product will be developed upon contract/order. All the above specs are for reference only. Actual product may be different. Please check with KeyLink sales team if you have any question.

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