

1.0-6.0GHz/100Watts/Rack Mount

Model Number: MCW1060S50A

The MCW1060S50A 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	1000		6000	MHz
Output Power CW	PSAT		100		Watt
Power Gain	Gp		50		dB
Input Power for Rated PSAT	PIN		0		dBm
Power Gain Flatness	ΔGP		±4		dB
Input Return Loss	S11			-10	dB
Harmonics @ POUT = 70W	H		-10		dBc
Spurious Signals	Spur		-55		dBc
Operating Voltage (1-phase)	VDC		220		Volt
Power Consumption @80W CW	PD		1300		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack Mount	483 x 221 x 485 mm [19x8.7x19.1 inch] (5U)	Max
Weight	35kg [77 lbs]	Max
RF Connectors Input /Output	In: Type-N, Female; Output: 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	+10 dBm (Max)
VSWR protection@70W	@ 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

Chengdu Microwave Technology Co., Ltd

>>1st Floor, Building 3#, Huidu Science Park, No.5 Xixin Avenue, High-tech West District, Chengdu, China 611731

>>Tel:+86(28)87872669*0

>>Fax:+86(28)87882925

>>Mobile/WhatsApp:+86-181 8078 9271

>>E-mail: info@cdmicrowave.com

>>www.cdmicrowave.com

1.0-6.0GHz/100Watts/Rack Mount

Model Number: MCW1060550A

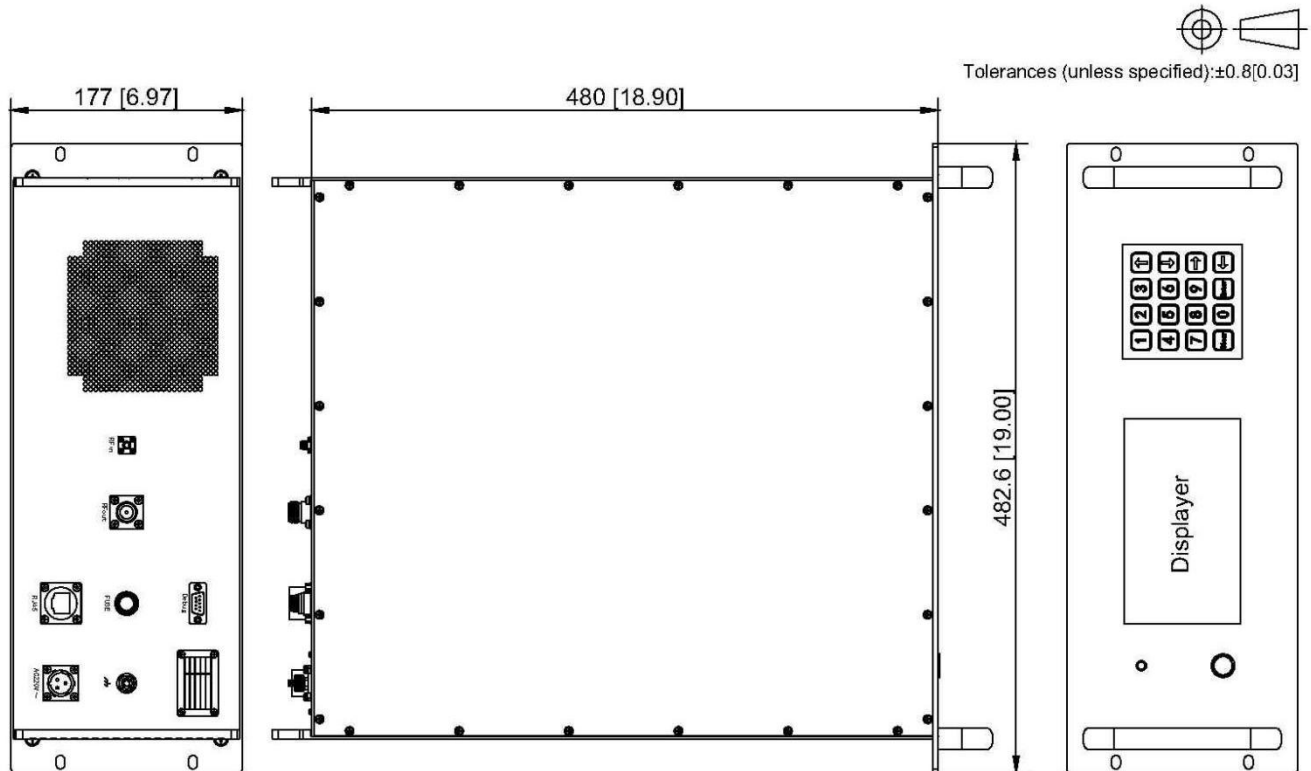
AVAILABLE OPTIONS (Selected options refer to the factory)

	Description	LCD
WAN(standard Ethernet)	Serial management of device /local operator access	Internet access
Status Monitor	LCD	Digital Display, including Power indication

WAN

Description	Specifications	LCD
FWD (Optional)	Forward detected power	
REV(Optional)	Reverse detected power	
VVA control (Optional)	Gain Control with code	

OUTLINE DRAWING (All dimensions in mm)



Chengdu Microwave Technology Co., Ltd

>>1st Floor, Building 3#, Huidu Science Park, No.5 Xixin Avenue, High-tech West District, Chengdu, China 611731

>>Tel: +86(28)87872669*0

>>Fax: +86(28)87882925

>>Mobile/WhatsApp: +86-181 8078 9271

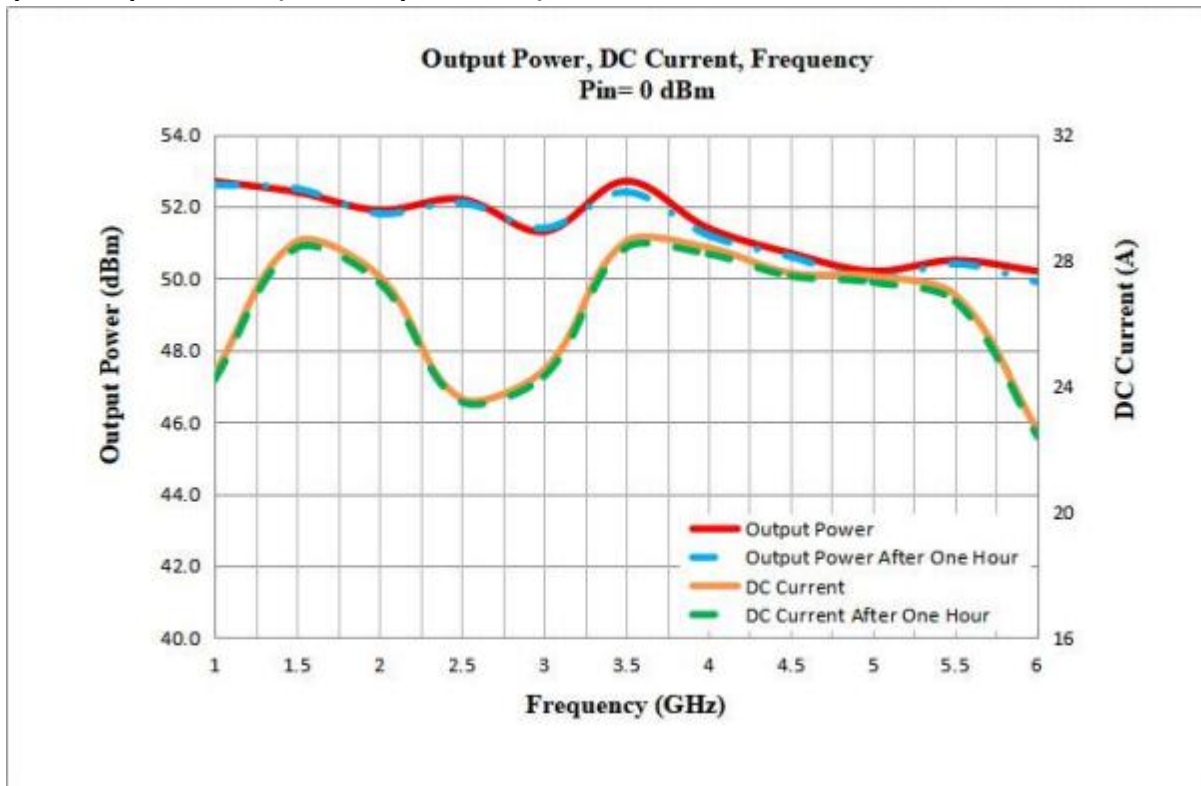
>>E-mail: info@cdmicrowave.com

>>www.cdmicrowave.com

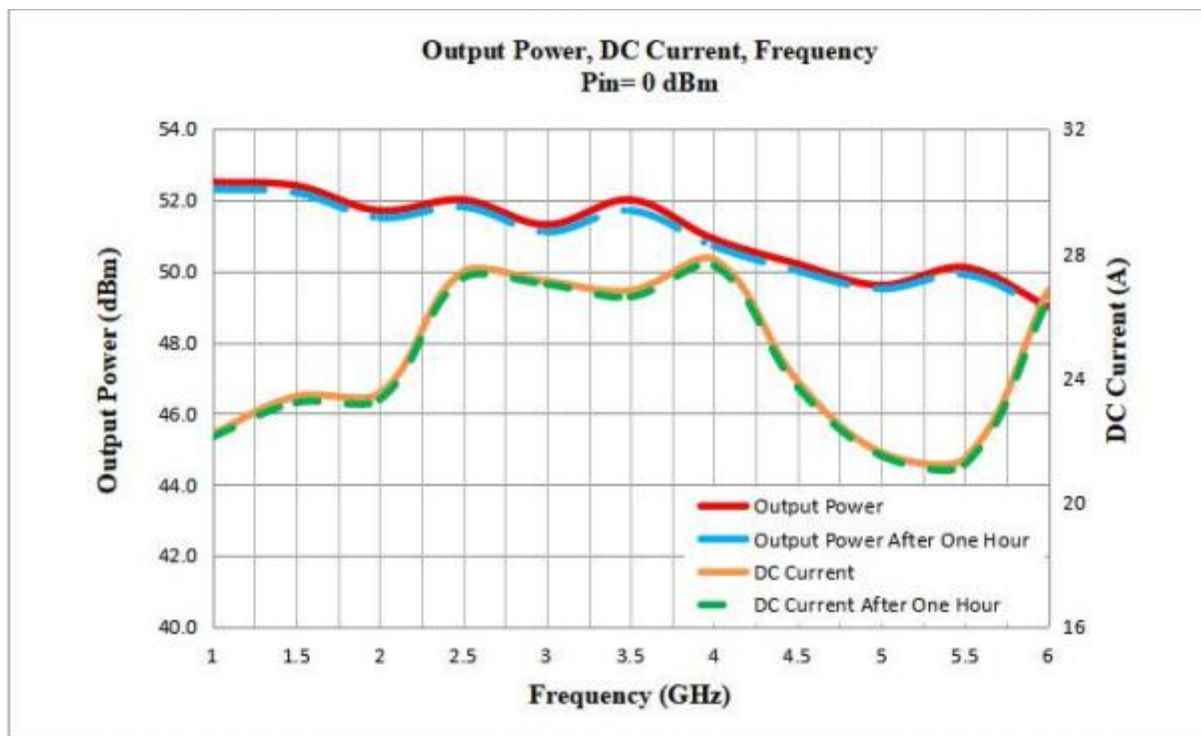
1.0-6.0GHz/100Watts/Rack Mount

Model Number: MCW1060550A

Graph1: Output Power (Low temp. $-10\pm 3^{\circ}\text{C}$)



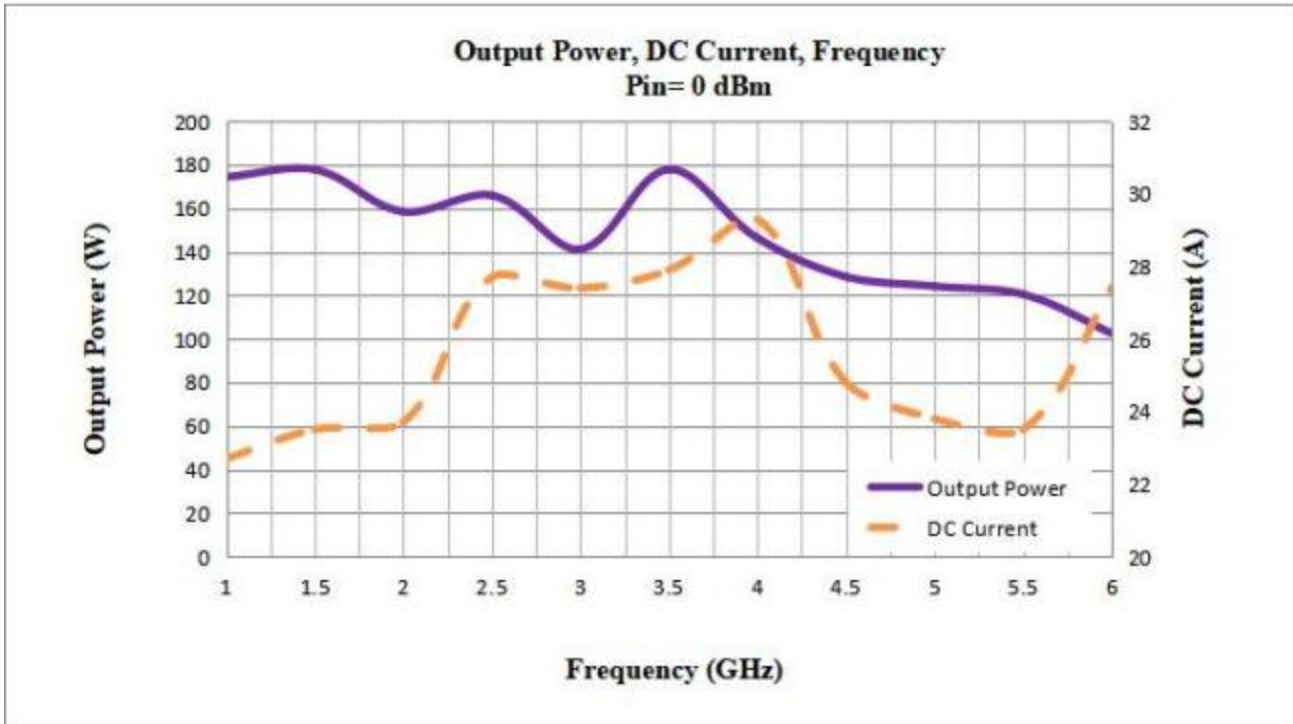
Graph2: Output Power (High temp. $+40\pm 3^{\circ}\text{C}$)



1.0-6.0GHz/100Watts/Rack Mount

Model Number: MCW1060550A

Graph3: Output Power (Normal temp. +25±3°C)



Important Note:

This product will be developed upon contract/order. All the above specs are for reference only. Actual product may be different. Please check with Chengdu Microwave Technology Co., Ltd sales team or E-mail to info@cdmicrowave.com if you have any more questions.

Chengdu Microwave Technology Co., Ltd

>>1st Floor, Building 3#, Huidu Science Park, No.5 Xixin Avenue, High-tech West District, Chengdu, China 611731

>>Tel:+86(28)87872669*0

>>Fax:+86(28)87882925

>>Mobile/WhatsApp:+86-181 8078 9271

>>E-mail: info@cdmicrowave.com

>>www.cdmicrowave.com