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, 50Ω System)

Parameter	Symbol	Minimum	Typ	Maximum	Units
Operating Frequency	BW	1000		6000	MHz
Output Power CW	P1		100		Watt
Power gain	PG		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

Absolute Maximum Rating

Parameter	Rating	
Input RF drive level without damage	+10dBm	Maximum
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	

Environmental Specifications (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-10		40	°C	
Storage Temperature	-40		85	°C	
Relative Humidity（non-condensing）			95	%	

Mechanical Specifications

Parameter	Value	Units	Notes
Dimensions	483 x 221 x 485 mm [19x8.7x19 .1 inch] (5U)	mm [inch]	Maximum
Weight	35kg [77 lbs]	kg [lbs]	Maximum
RF Connectors Input	Typ-N Female		
RF Connectors Output	Typ-N, Female		
Cooling	Extemal Heatsink(Not Supplied)		

AVAILABLE OPTIONS (Selected options refer to the factory)

	Specifications	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 [inch])

