The MCW2060S49A 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, 50Ω System)

Parameter	Symbol	Minimum	Typ	Maximum	Units
Operating Frequency	BW	2000		6000	MHz
Output Power CW	P1		80		Watt
Power Gain @ PSAT	GP		49		dB
Input Power for Rated PSAT	PIN		0		dBm
Power Gain Flatness	ΔGp		±2.5		dB
Input Return Loss	S11			-10	dB
In/Output Impedance	Impedance		50		Ω
Harmonics @ POUT =60W	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (1-phase)	VDC	180	220	240	Volt
Power Consumption @ 60W CW	PD		800		Watt

Absolute Maximum Rating

Parameter	Rating	
Input RF drive level without damage	+5dBm	Maximum
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	

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	482 x 177 x440 mm [19x6.9x18.4 inch] (4U)	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)		

DC Interface Connector

Pin #	Description	Specifications
1	FWD	Forward detected power
2	REV	Reverse detected power
3	GND	GND
4	Reserved	Reserved
5	Reserved	Reserved
6	Reserved	Reserved
7	Reserved	Reserved
8	Reserved	Reserved
9	Reserved	Reserved

Outline Drawing (All dimensions in mm [inch])

