

Solid State High Power Amplifier Systems

6-8 GHz /50dB Gain/48 dBm Psat/220 V AC

Model: TLPA6G8G-50-48-BC

TLPA6G8G-50-48-BC is a solid state high power amplifier systems provides high output power and high gain across the 6 to 8 GHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Wide Band: 6-8GHz
- Gain: 50dB Min
- Psat Output Power:48dBm Min
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	6-8			GHz
Gain	GP	50			dB
Gain flatness	ΔGL		±3		dB
Output Psat	Psat	48			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM		-20		dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	500@Max			W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

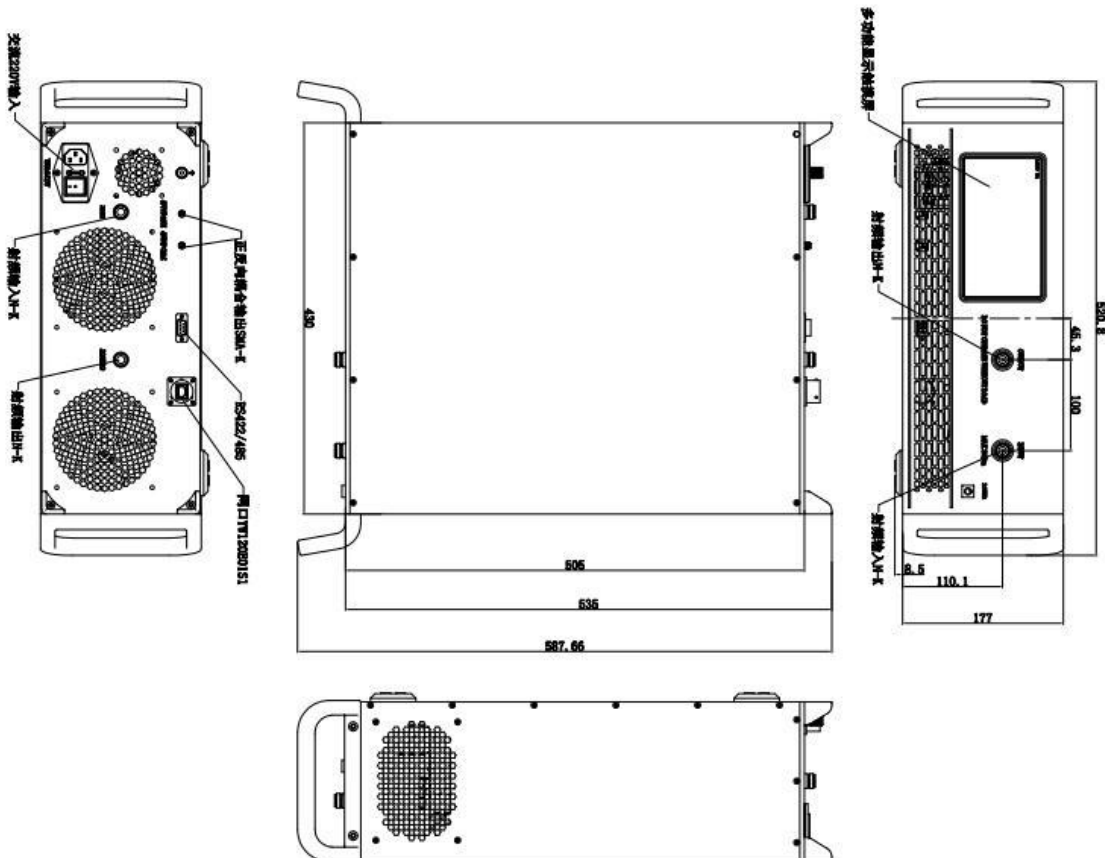
Parameter	Value	Units
Input /Output Connector	N Female/WR137	
Size	19 Inch 4U	
Weight	≤35	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	260V
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Key Features:

Parameter	Advantages
Control	RS422/Ethernet
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
控制Control functions	1,Power setting On/Off 2,ALC
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Base Number	Description	Revision
TLPA6G8G-50-48-BC	Solid State High Power Amplifier Systems 6-8GHz,Gain:50dB,Psat:48dBm,220V AC,Built in Fan Cooling	Rev.1.0