

Solid State High Power Amplifier Systems

2-6GHz /56dB Gain/56 dBm Psat/220AC

Model: TLPA2G6G-56-56-BC

TLPA2G6G-56-56-BC is a solid state high power amplifier systems provides high output power and high gain across the 2 to 6 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: 2-6 GHz
- Gain: 56dB Min
- Psat Output Power:56dBm Min
- Protection:Over TEM,over voltage, over current ,output mismatch protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	2-6			GHz
Gain	GP	56			dB
Gain flatness	ΔGL		± 3		dB
Output Psat	Psat	56			dBm
Output P1dB	P1dB		53		dBm
Gain adjust range	ΔGR	30			dB
Spurious	Spur			-60	dBc
Harmonics	HAM		-15		dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	220			V AC
AC Supply Current	Idc	16			A
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

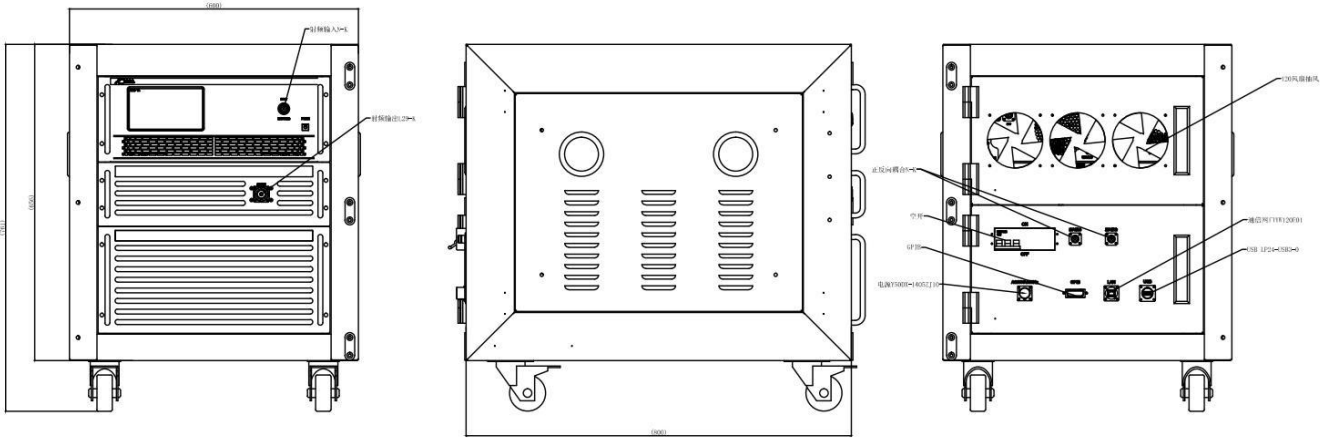
Parameter	Value	Units
Input /Output Connector	N Female/L29 Female	
Monitor and control interface	RS422 or Ethernet	
Size	12U	
Weight	150	Kg

Absolute Maximum Ratings:

Parameter	Value
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,Output mismatch
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*	-45		+85	°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
TLPA2G6G-56-56-BC	Solid State High Power Amplifier Systems 2-6GHz,Gain:56dB,Psat:56dBm,220V AC,Built in Fan Cooling	Rev.1.0