

Solid State High Power Amplifier Systems

2.5-8GHz /57dB Gain/57 dBm Psat/380V AC

Model: TLPA2.5G8G-57-57-BC

TLPA2.5G8G-57-57-BC is a solid state high power amplifier systems provides high output power and high gain across the 2.5 to 8 GHz frequency range. The amplifier features a built-in 380V 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: 2.5-8 GHz
- Gain: 57dB Min
- Psat Output Power:57dBm Typ
- 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	2.5-8			GHz
Gain	GP	57			dB
Gain flatness	ΔGL		± 4		dB
Output Psat	Psat	56	57		dBm
Spurious@Pout=57dBm	Spur		-60	-50	dBc
Harmonics@Pout=57dBm	HAM		-15	-10	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		380		V AC
AC Input Power	Pdiss	5000@Max			W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

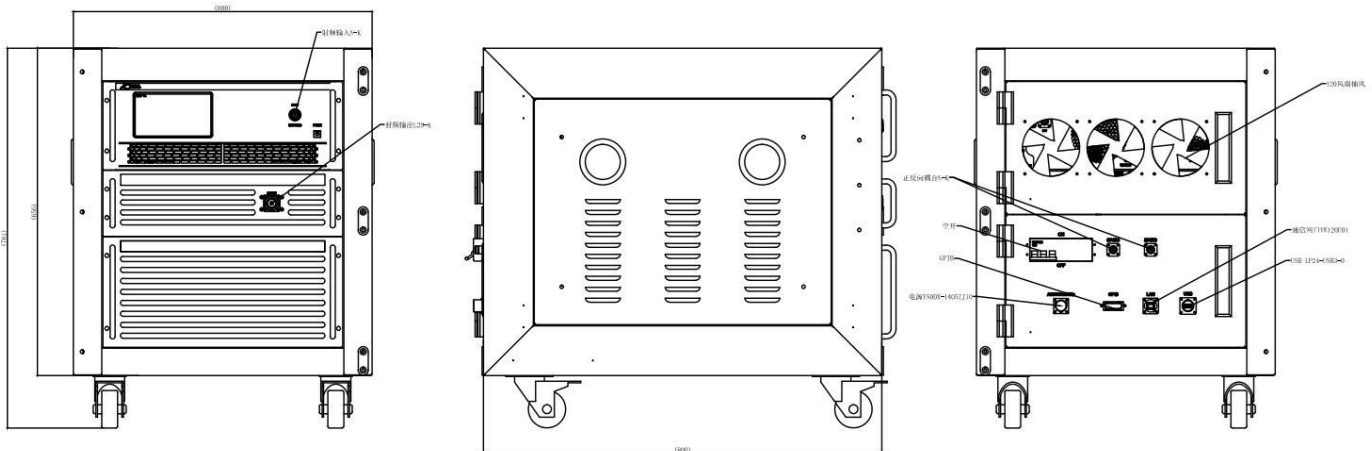
Parameter	Value	Units
Input /Output Connector	N Female/L29 Female orWRD250	
Size	12U	mm
Weight	150	Kg

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 functions	1, Power setting On/Off 2, RF setting On/Off 3, ALC automatic level control
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Output mismatch
Communication functions	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	0		+40	°C
Non-operating Temperature*	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD- 810F)	Normal Truck Trans			

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

Ordering Information:

Base Number	Description	Revision
TLPA2.5G8G-57-57-BC	Solid State High Power Amplifier Systems 2.5-8GHz, Gain:57dB, Psat:57 dBm, 380V AC, Built in Fan Cooling	Rev.1.0