

Solid State High Power Amplifier Systems

2.5-8GHz/57dB Gain/57dBm 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:

- Frequency range: 2.5-8GHz
- Gain: 57dB Min
- Psat Output Power: 57dBm Typ
- Protection: Over TEM, over voltage, over current, over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	2.5-8			GHz
Power Gain	GP	57			dB
Gain flatness	ΔGL		± 4		dB
Output Psat	Psat	56	57		dBm
Spurious@Pout=57dBm	Spur		-60	-50	dBc
Harmonics@Pout=dBm	HAM		-15	-10	dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		380		V AC
Power Consumption	Pdiss			5000	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/L29 Female or WRD250	
Size	12U	
Weight	≤ 150	Kg

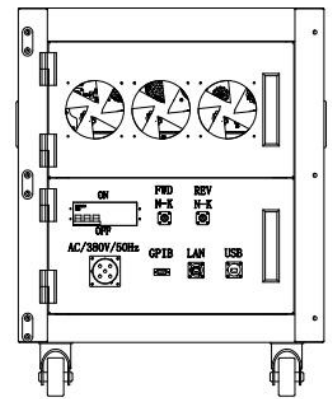
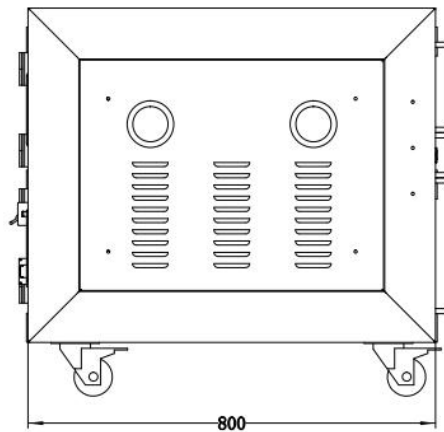
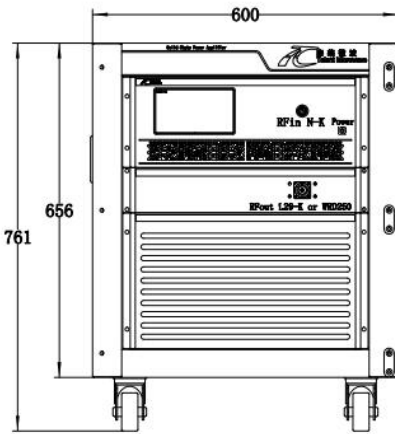
Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBM)	Class 0, passed 150V

Outline Drawing:

Unit:mm

Regulatory Compliance:



Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2,ALC automatic level control 3,RF setting on/off
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°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
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.1.1