

**Model:TLPA0.5G2G-60-60-BC**

**Solid State High Power Amplifier Systems  
0.5-2GHz,Gain:60dB,Psat:60 dBm,380V AC**

**Feature:**

- Wide Band: 0.5-2GHz
- Gain: 60dB Min
- Psat Output Power:60dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output



**Electrical Specifications:**

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	0.5-2			GHz
Power Gain	GP	60			dB
Gain flatness	$\Delta$ GL		$\pm 3$		dB
Output Psat	Psat	60			dBm
Spurious@Pout=55dBm	Spur			-60	dBc
Harmonics@Pout=55dBm	HAM			-10	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		380		V AC
Power Consumption	Pdiss	4500@Max			W
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

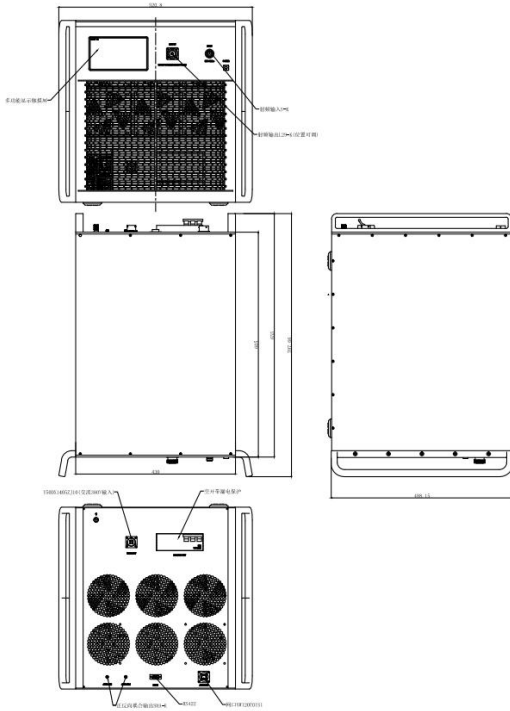
Parameter	Value	Units
Input /Output Connector	N Female/7/16 DIN Female	
Forward/Reverse Coupling	SMA Female/ SMA Female	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 11U*720	mm
Weight	$\leq 100$	Kg

**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, ALC automatic level control
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 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		+50	°C
Non-operating Temperature*	-30		+60	°C
Relative humidity		95		%
Altitude	10000			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:**

Part Number	Description	Revision
TLPA0.5G2G-60-60-BC	Solid State High Power Amplifier Systems 0.5-2GHz, Gain:60dB, Psat:60 dBm, 380V AC, Built in Fan Cooling	Rev.1.0