

Solid State High Power Amplifier Systems

0.35-2GHz/30dB Gain/40dBm Psat/220V AC

Model: TLPA0.35G2G-30-40-BC

TLPA0.35G2G-30-40-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.35 to 2 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:

- Frequency range: 0.35-2GHz
- Gain: 30dB Min
- Psat Output Power: 40dBm Min
- Protection: Over TEM, over voltage, over current, over reflected protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	0.35		2	GHz
Power Gain	GP	30			dB
Gain flatness	ΔGL		± 3		dB
Gain adjust Range	ΔGR	20			dB
Gain adjust Step	ΔGS		0.5		dB
Output P1dB	P1dB				dBm
Output Psat	Psat	40			dBm
Spurious@Pout=40dBm	Spur			-60	dBc
Harmonics@Pout=40dBm	HAM			-10	dBc
Input VSWR	VSWRin			1.8	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			150	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

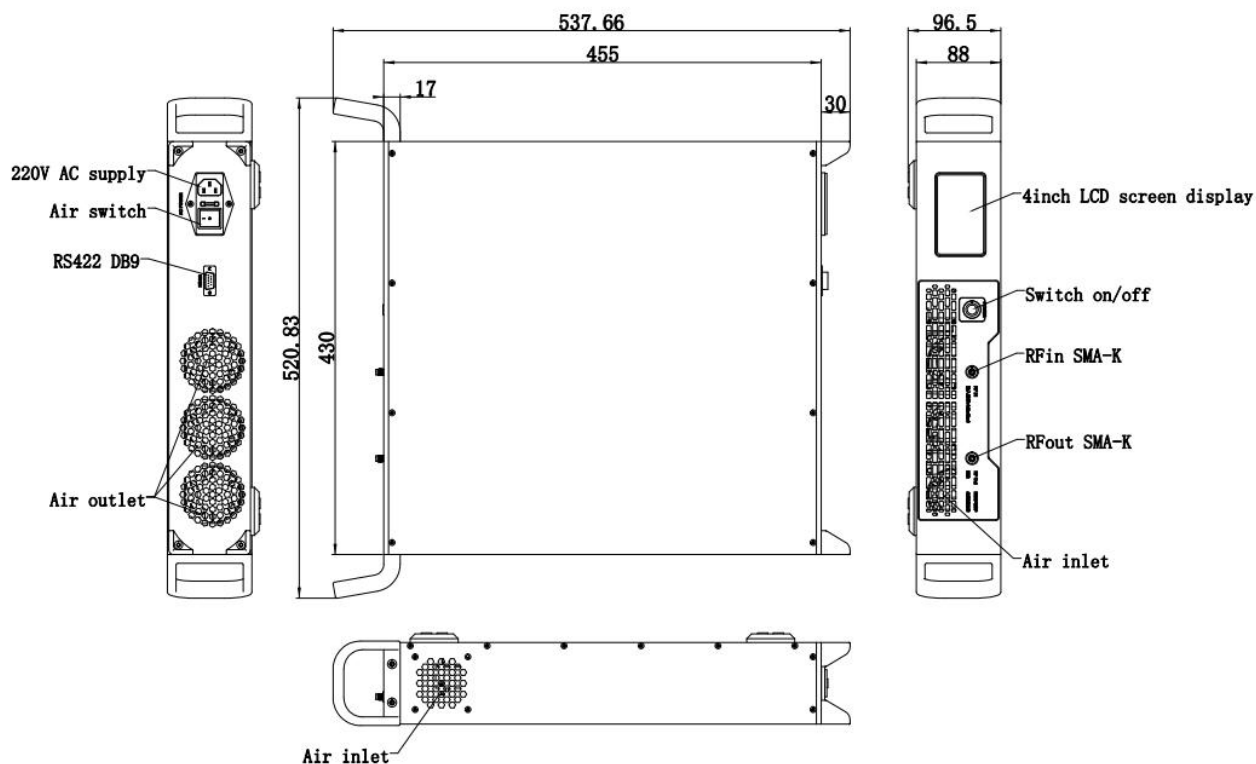
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	4 inch LCD Screen Display	
Size	19 Inch 2U*550 depth	mm
Weight	≤20	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Key Features:

Parameter	Advantages
Display functions	Output power
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over reflected
Communication functions	1, Power setting on/off 2, Status query
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	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
TLPA0.35G2G-30-40-BC	Solid State High Power Amplifier Systems 0.35-2GHz, Gain:30dB,Psat:40dBm,220V AC,Built in Fan Cooling	Rev.1.0