

Solid State High Power Amplifier Systems

26.5-40GHz /49dB Gain/49 dBm Psat/220V AC

Model: TLPA26.5G40G-49-49-BC

TLPA26.5G40G-49-49-BC is a solid state high power amplifier systems provides high output power and high gain across the 26.5 to 40 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: 26.5-40GHz
- Gain: 49dB Min
- Psat Output Power:49dBm Min
- 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	26.5-40			GHz
Power Gain	GP	49			dB
Gain flatness	ΔGL		±5		dB
Output Psat	Psat	49			dBm
Spurious@Pout=49dBm	Spur			-50	dBc
Harmonics@Pout=49dBm	HAM			-30	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			1600	W
Impedance	I/O-IMP	49			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/WR-28	
Communication Connector	DB9/RJ45	
Size	19 Inch 4U	
Weight	≤35	Kg

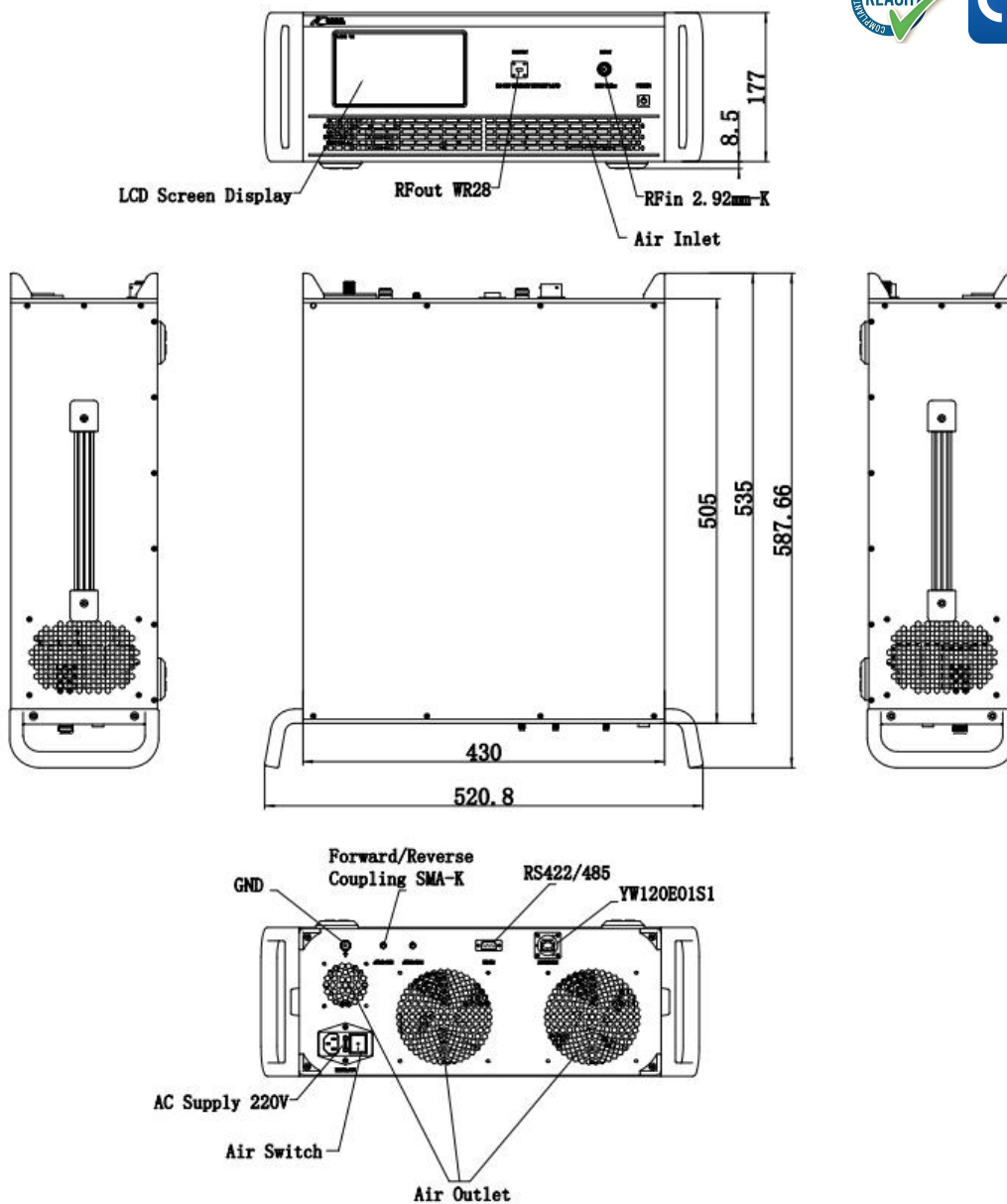
Absolute Maximum Ratings:

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, Output power adjustable
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Display function	1, Output/Reflected power 2, Fault informations
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
TLPA26.5G40G-49-49-BC	Solid State High Power Amplifier Systems 26.5-40GHz, Gain: 49dB, Psat: 49dBm, 220V AC, Built in Fan Cooling	Rev.1.1