

Solid State High Power Amplifier Systems

18-26.5GHz/40dB Gain/41dBm Psat/220V AC

Model: TLPA18G26.5G-40-41-BC

TLPA18G26.5G-40-41-BC is a solid state high power amplifier systems provides high output power and high gain across the 18 to 26.5 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: 18-26.5GHz
- Gain: 40dB Min
- Psat Output Power: 41dBm Min
- Protection: Over TEM, over voltage, over current ,infinite VSWR protection
- 50 Ohm Matched Input / Output



Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	18-26.5			GHz
Power Gain	GP	40			dB
Gain flatness	ΔGL		± 3		dB
Gain adjust Range	ΔGR	41	42		dB
Spurious	Spur		-60		dBc
Harmonics	HAM		-20		dBc
Input VSWR	VSWR _{in}			2.0	:1
AC Voltage	V _{ac}		220		V AC
Power Consumption	P _{diss}		150		W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

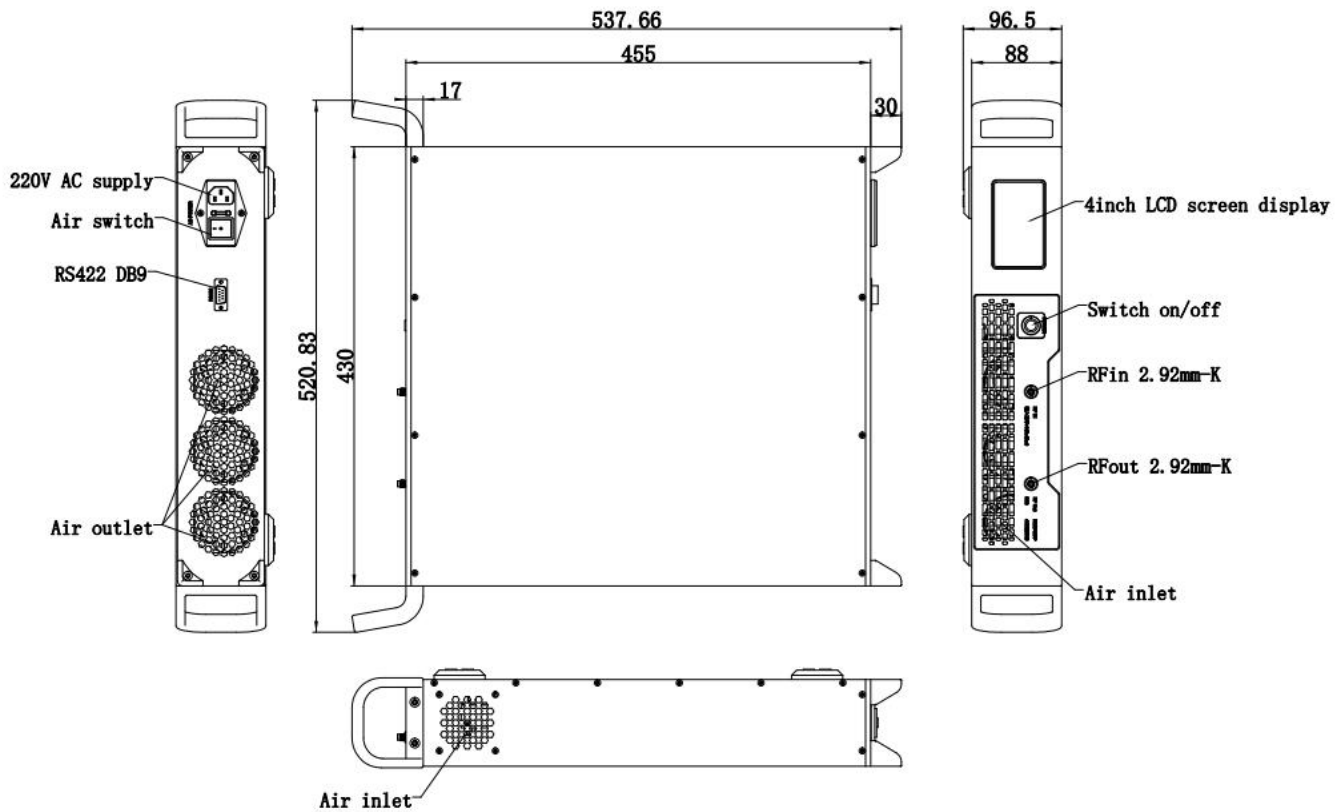
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
AC Power Interface	Air switch	
Size	19 Inch 2U	mm
Weight	≤20	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+10 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 4, Infinite VSWR
emote control	Ethernet RJ-45 TCP/IP
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
TLPA18G26.5G-40-41-BC	Solid State High Power Amplifier Systems 18-26.5GHz, Gain:40dB, Psat:41dBm, 220V AC, Built in Fan Cooling	Rev.1.1