

Solid State High Power Amplifier Systems

18-26.5GHz/47dB Gain/47dBm Psat/220V AC

Model: TLPA18G26.5G-47-47-BC

TLPA18G26.5G-47-47-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: 47dB Min
- Psat Output Power:47dBm 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	18-26.5			GHz
Power Gain	GP	47			dB
Gain flatness	Δ GL		± 3		dB
Output Psat	Psat		47		dBm
Saturated Power flatness	Δ PL			± 1.5	dB
Spurious	Spur			-60	dBc
Harmonics	HAM			-15	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	2.92mm Female/WR-42	
AC Power Interface	Air switch	
Size	19 Inch 4U	mm
Weight	≤ 25	Kg

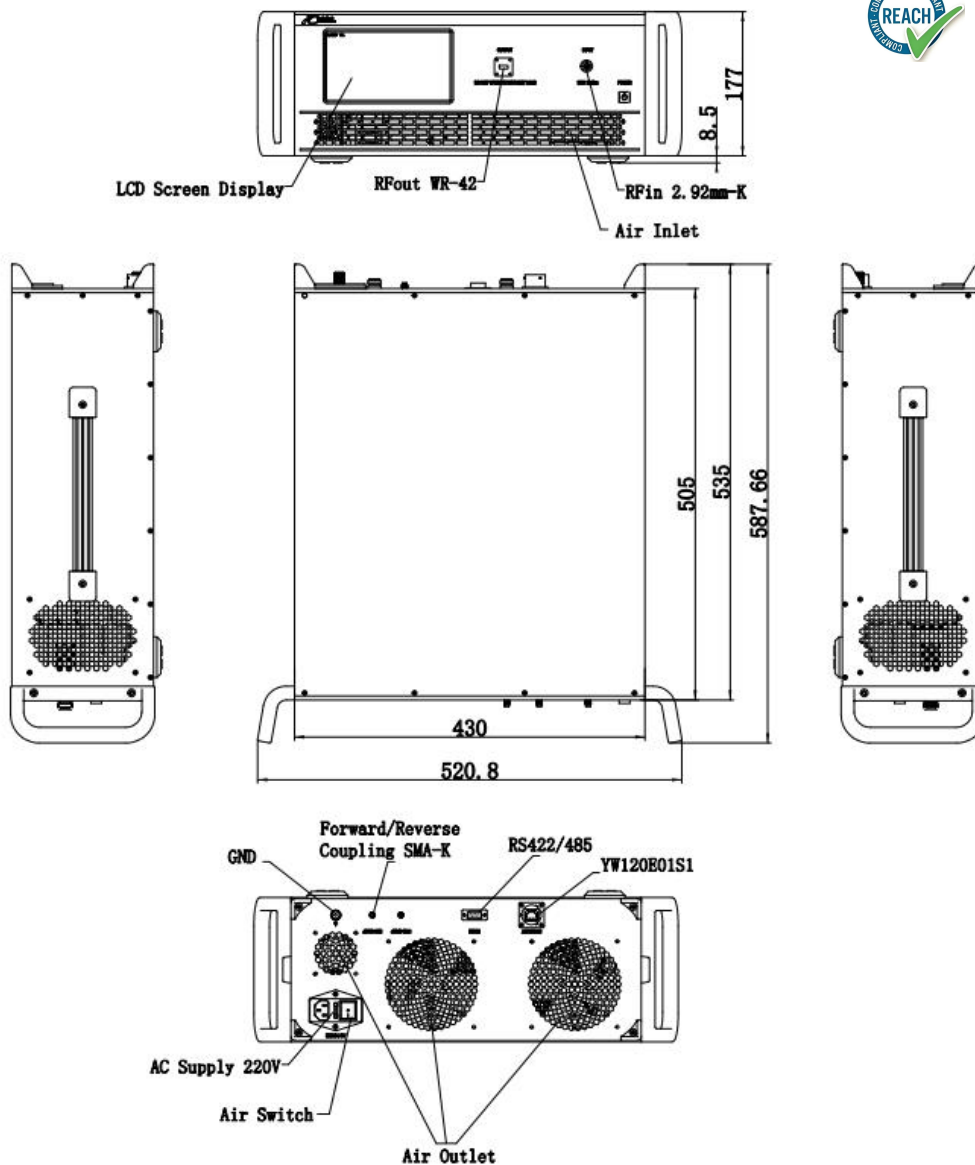
Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	260 VAC
输入功率 RF Input Power	+10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

Regulatory Compliance:



Key Features:

Parameter	Advantages
Remote Control	Ethernet RJ-45 TCP/IP
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1,Power setting On/Off 2,ALC On/Off
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
TLPA18G26.5G-47-47-BC	Solid State High Power Amplifier Systems 18-26.5GHz,Gain:47dB,Psat:47dBm,220V AC,Built in Fan Cooling	Rev.1.1