

## Solid State High Power Amplifier Systems

2-18GHz/53dB Gain/53dBm Psat/220V AC

Model: TLPA2G18G-53-53-BC

TLPA2G18G-53-53-BC is a solid state high power amplifier systems provides high output power and high gain across the 2 to 18 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: 2-18GHz
- Gain: 53dB Min
- Psat Output Power: 53dBm 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	2		18	GHz
Power Gain	GP	53			dB
Gain flatness	$\Delta$ GL		$\pm 4$		dB
Output Psat	Psat	53			dBm
Spurious@Pout=53dBm	Spur			-60	dBc
Harmonics@Pout=53dBm	HAM			-10	dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			4500	W
Impedance	I/O-IMP	50			Ohms

### Mechanical Specifications:

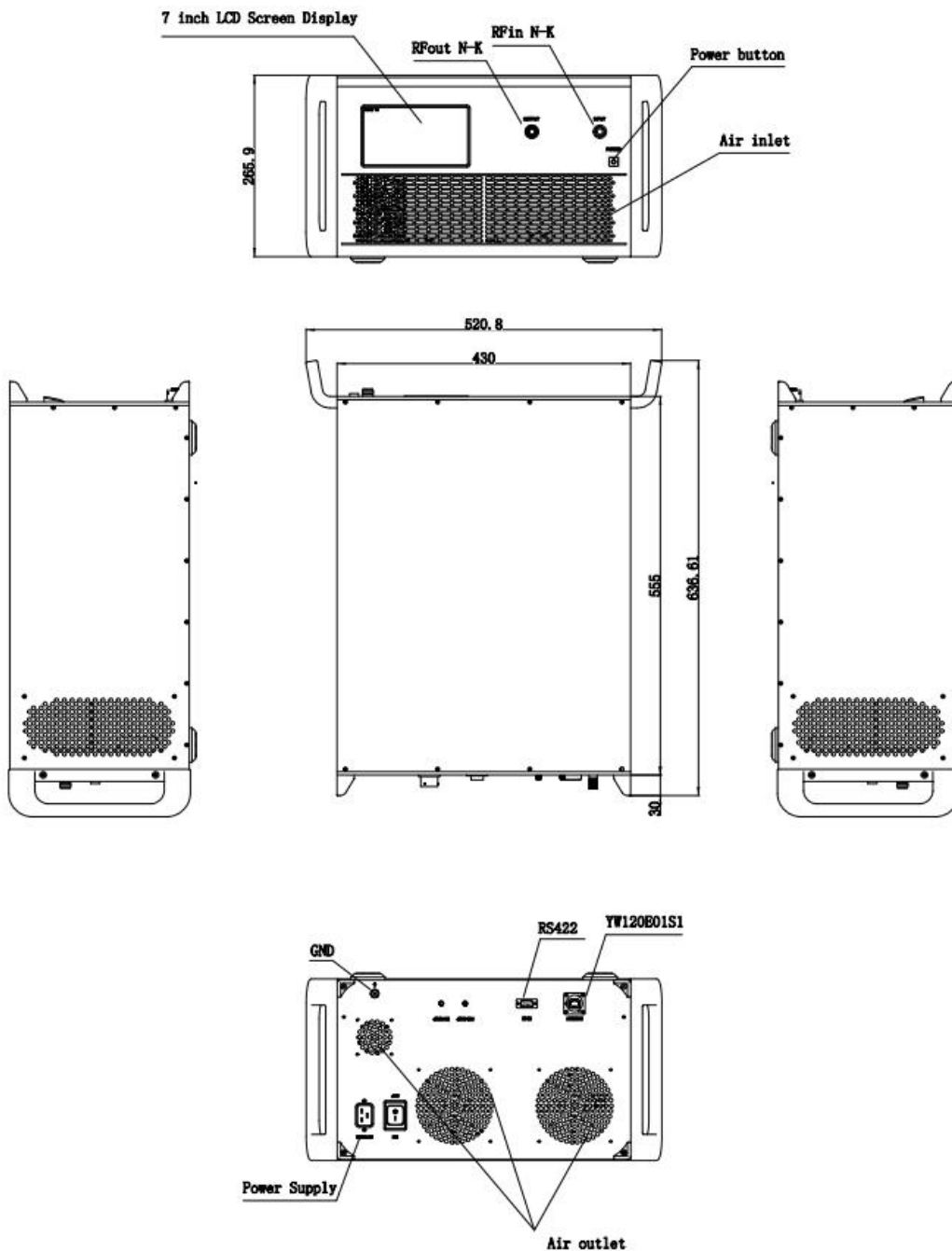
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 6U	mm
Weight	$\leq 45$	Kg

### 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,Output power adjustment
Display functions	1,Output/reflected power 2,Operating voltage 3,Operating current 4, Temperature 5,Fault informations
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Remote control	RS422/LAN
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
TLPA2G18G-53-53-BC	Solid State High Power Amplifier Systems 2-18GHz, Gain:53dB, Psat:53dBm, 220V AC, Built in Fan Cooling	Rev.1.0