

Power Amplifier

2-18GHz/53dB Gain/53dBm Psat

Model: TLPA2G18G-53-53-HS

TLPA2G18G-53-53-HS is a power amplifier with minimum power gain of 53 dB and a minimum Psat of 53 dBm across the frequency range of 2 to 18 GHz. The AC power requirement for the amplifier is +220 VAC/3500 W. The input and output port configuration offers coax adapter structure with N female.

Features:

- Frequency range: 2-18GHz
- Gain: 53dB Min
- Output Power Psat: 53dBm Min
- Protection: Over TEM, over current, over voltage, load VSWR protection
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	2		18	GHz
Power Gain	53			dB
Output Psat	53			dBm
Power Gain flatness		±4		dB
Spurious@Pout=53dBm			-60	dBc
Harmonics@Pout=53dBm			-10	dBc
Input VSWR			2	:1
AC Voltage		+220		V AC
Power Consumption			3500	W
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Communication Connector	RS422/LAN	
Size	429*376*210	mm
Weight	≤50	Kg

Absolute Maximum Ratings:

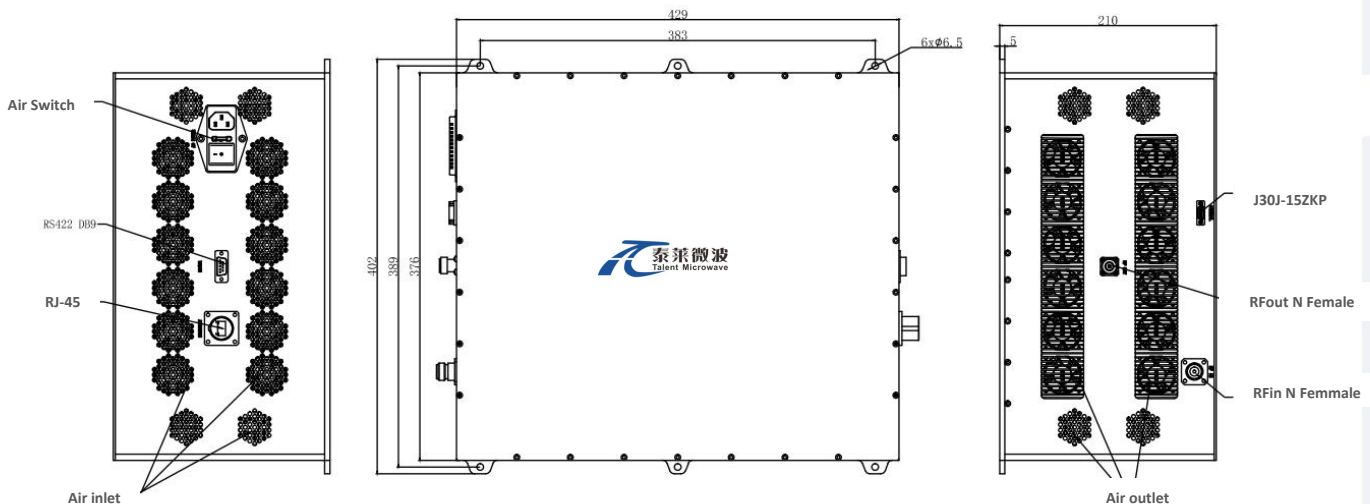
Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

Outline Drawing:

Unit:mm



*****Heat Sink Required During Operation**



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Key Features:

Parameter	Advantages
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR protection
Monitor functions	1,Output/reflected power 2,Operating voltage 3,Operating current 4,Temperature 5,Fault informations
Control functions	1,Programmed power on/off 2,Output power adjustment
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
TLPA2G18G-53-53-HS	Power amplifier 2-18GHz, Gain:53dB,Psat:53dBm,+220V AC,built in cooling system	Rev.1.1