



# Power Amplifier

## Model: PA-2G-18G-200-HS

2-18GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 2-18GHz
- High output power at saturation, 200W Min.
- High gain, 53 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-2G-18G-200-HS is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W 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. And it has built-in protection functions included over TEM, over voltage, over current, and over VSWR protection.



## Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	2		18	GHz
Power Gain	53			dB
Power Gain Flatness		±4		dB
Output Psat	53			dBm
Spurious@Pout=53dBm			-60	dBc
Harmonics@Pout=53dBm			-10	dBc
Input VSWR			2.0	:1
AC Voltage		+220		V AC
Power Consumption			3500	A
Impedance		50		Ohms

## Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20°C to +50°C	
Non-operating Temperature*	-30°C to +60°C	
Relative humidity	95	%
RF Input/Output Connector	N Female/N Female	
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	
Dimensions W x H x D	429*376*210	mm
Weight	≤50	Kg

\*Note: For a wider temperature range, please consult the manufacturer.

## Absolute Maximum Ratings:

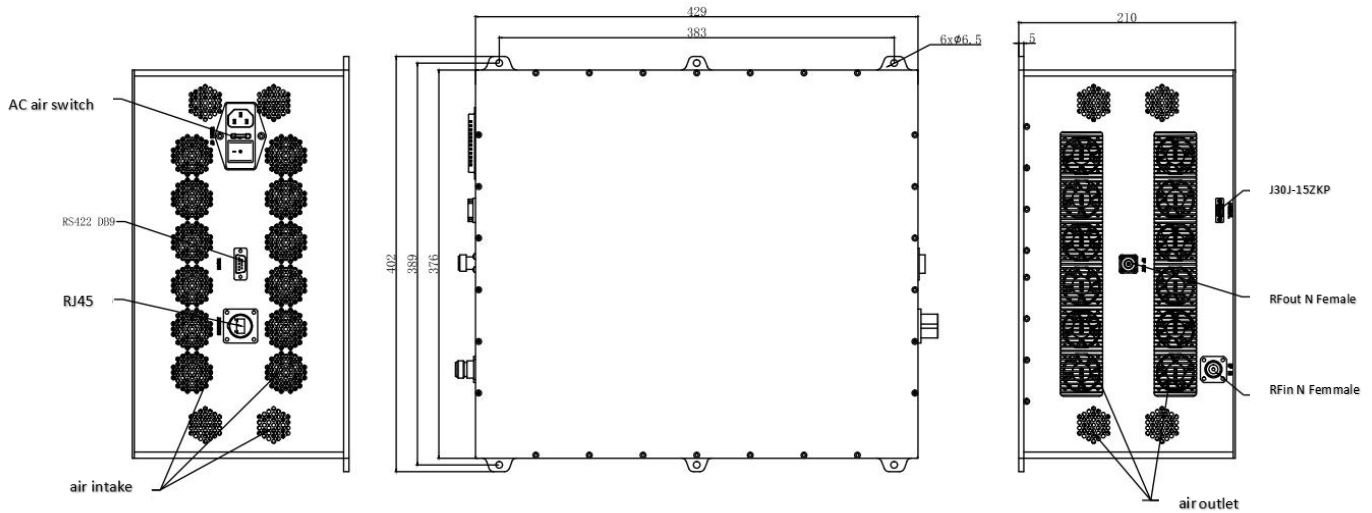
Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-2G-18G-200-HS



## 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

## Ordering Information:

Base Number	Description	Optional
PA-2G-18G-200-HS	Power Amplifier, 2-18GHz, Gain:53dB,Psat:200W,+220V AC	With Heatsink