



# High Power Amplifier

## Model:RPA-32G-36G-400

32-36GHz 400W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 32-36GHz
- High output power at saturation, 56dBm Min.
- High gain, 56dB Min.
- Operates from AC line power: 380V

### Applications:

- Laboratory test instrument
- RF Power stress test
- EMI and antenna testing
- Reliability testing

### Product Overview:

The RPA-32G-36G-400 is a high power, rack mount amplifier with a self-contained AC power supply which can be used for a wide variety of laboratory testing applications. This rugged amplifier is capable of amplifying signals up to 400W output power over its entire operating bandwidth of 32 to 36GHz. The control functions RPA-32G-36G-400 possesses include the on/off of the power supply and output power can be controlled by the automatic ALC system. Built-in safety features include fans alarms and automatic shut down mechanism to prevent damage in the event of excessive internal temperatures. The amplifier's output stage is further protected in the event of a fault condition, allowing high power operation for up to 5 minutes into an open or short load (refer to the maximum input power specifications). And it has built-in protection functions included over TEM, over voltage, over current, over VSWR.



## Electrical Specifications at 25°C:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	32		36	GHz
Power Gain@Pout=56dBm	GP	56			dB
Power Gain flatness	$\Delta$ GL		$\pm 3$		dB
Output Psat	Psat	56			dBm
Spurious@Pout=56dBm	Spur			-55	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		380		V AC
Power Consumption	Pdiss		6000	6500	W
Impedance	I/O-IMP		50		Ohms

## Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20 to +40	°C
Non-operating Temperature*	-30 to +50	°C
Relative humidity	95	%
RF Input/Output Connector	2.92mm Female/WR28	
Forward/Reverse Coupling	2.92mm Female/2.92mm Female	
Communication Connector	DB9/RJ45	
Display functions	1, Output/reflected power 2, Fault informations	
Cooling	Built in Cooling system,forced air cooling	
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	19 Inch 8U*550	mm
Weight	$\leq 80$	Kg

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



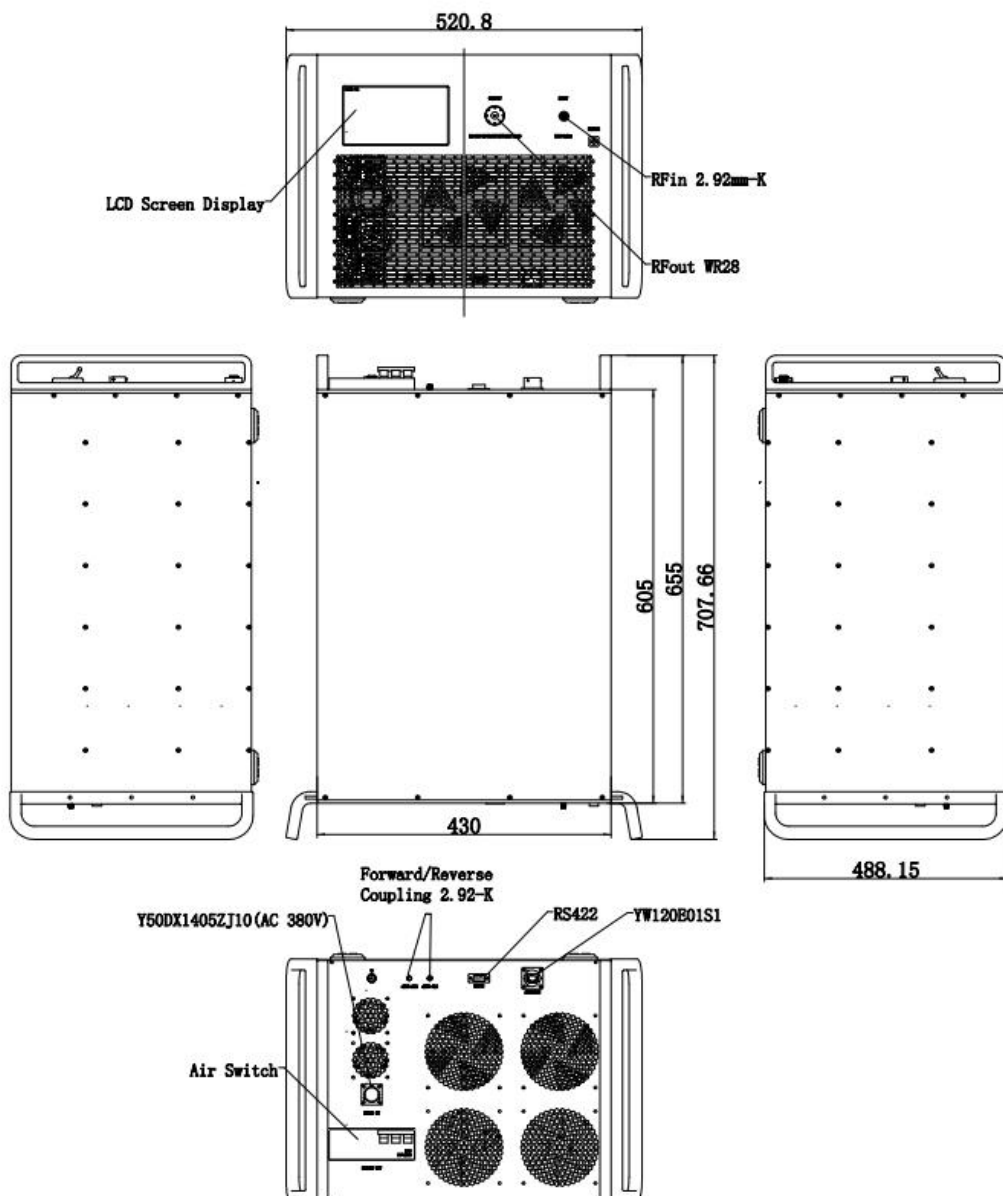
## Absolute Maximum Ratings:

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

## Outline Drawing:

Unit:mm

RPA-32G-36G-400





## Optional items:

Number	Parameter
1	LCD display touchscreen
2	Ingress protection grad
3	Customized operating temperature range
4	Built in Cooling system(air or liquid)
5	Types of RF,coupling and monitor&control interfaces

## Outline Drawing:

Base Number	Description	Optional
RPA-32G-36G-400	High Power Amplifier, 32-36GHz, 400W CW, Built in air or liquid cooling, without LCD and IP grad.	Basic version
RPA-32G-36G-400-M	High Power Amplifier, 32-36GHz, 400W CW, Built in air or liquid cooling, with LCD.	Add LCD display touchscreen
RPA-32G-36G-400-IPxx	High Power Amplifier, 32-36GHz, 400W CW, Built in air or liquid cooling, with LCD and IP grad.	Add Ingress protection grad