泰莱微波
Talent Microwave

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Solid State High Power Amplifier Systems

7-8GHz/56dB Gain/56dBm Psat/220V AC Model: TLPA7G8G-56-56-BC

TLPA7G8G-56-56-BC is a solid state high power amplifier systems provides high output power and high gain across the 7 to 8 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: 7-8GHz
- Gain: 56dB Min
- Psat Output Power: 56dBm 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	7		8	GHz
Power Gain@Pout=56dBm	GP	56			dB
Gain flatness	ΔGL		±3		dB
Output Psat	Psat	56			dBm
Spurious@Pout=56dBm	Spur			-60	dBc
Harmonics@Pout=56dBm	HAM			-20	dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			2500	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/WR112	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 5U*550 depth	mm
Weight	≤35	Kg

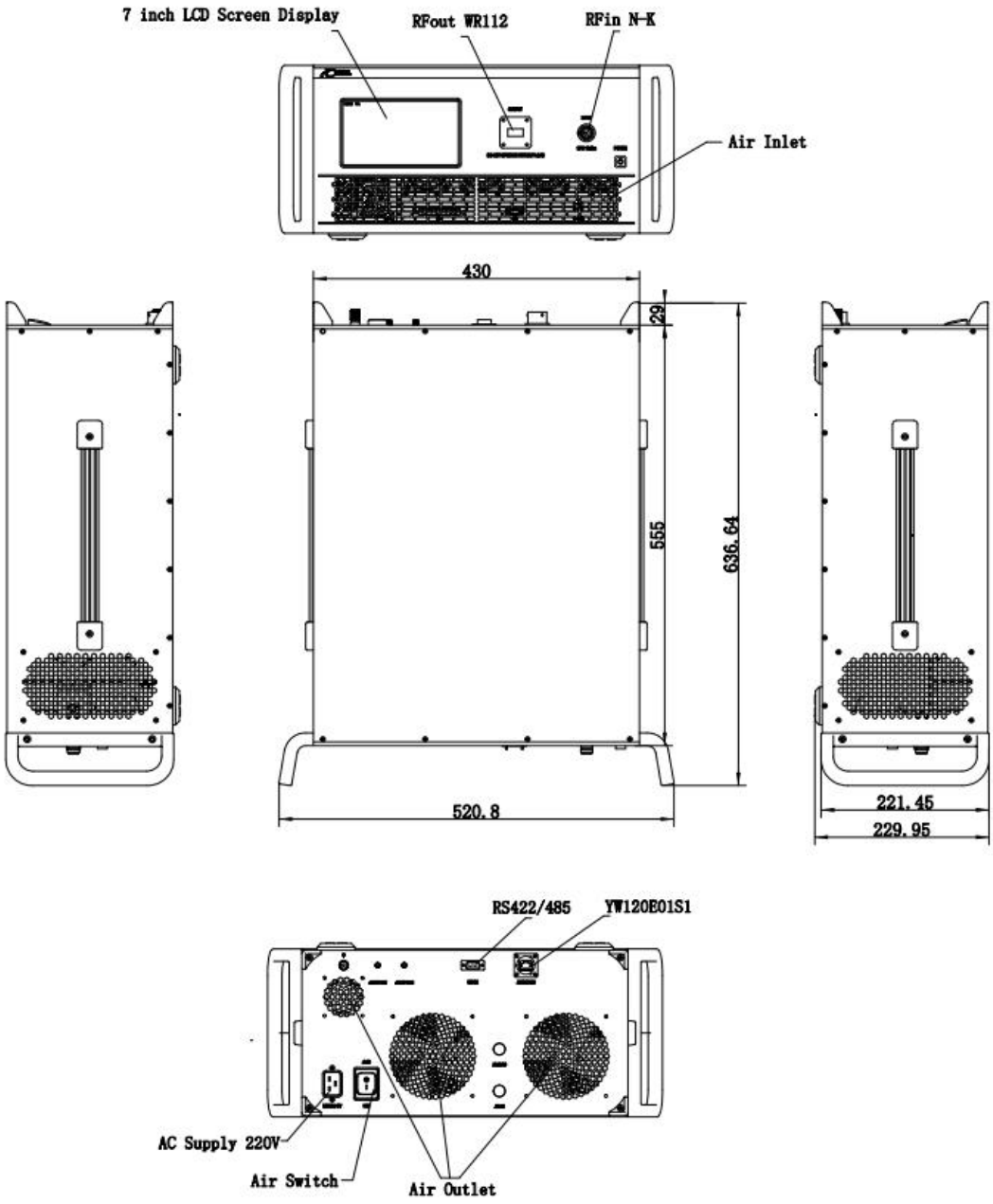
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Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2, ALC automatic level control 3, Gain ajustment 4, Condition monitoring
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Display functions	1, Output/reflected power 2, Fault informaions
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	℃
Non-operating Temperature*	-30		+50	℃
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
TLPA7G8G-56-56-BC	Solid State High Power Amplifier Systems 7-8GHz,Gain:56dB,Psat:56dBm,220V AC,Built in Fan Cooling	Rev.1.0