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

电气特性 Electrical Characteristics:

参数 Parameter	代码 Symbol	Min	Typ	Max	单位 Units
频率范围 Frequency range	BW	7		8	GHz
功率增益 Power Gain @Pout=56dBm	GP	56			dB
增益平坦度 Gain flatness	ΔGL		±3		dB
饱和输出功率 Output Psat	Psat	56			dBm
杂散 Spurious@Pout=56dBm	Spur			-60	dBc
谐波 Harmonics@Pout=56dBm	HAM			-20	dBc
输入驻波 Input VSWR	VSWRin			2	:1
交流电压 AC Voltage	Vac		220		V AC
功耗 Power Consumption	Pdiss			2500	W
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/WR112	
通信接口 Communication Connector	DB9/RJ45	
液晶显示屏 Front Panel LCD Screen Display	7 inch LCD Screen Display	
尺寸 Size	19 Inch 5U*550 depth	mm
重量 Weight	≤35	Kg

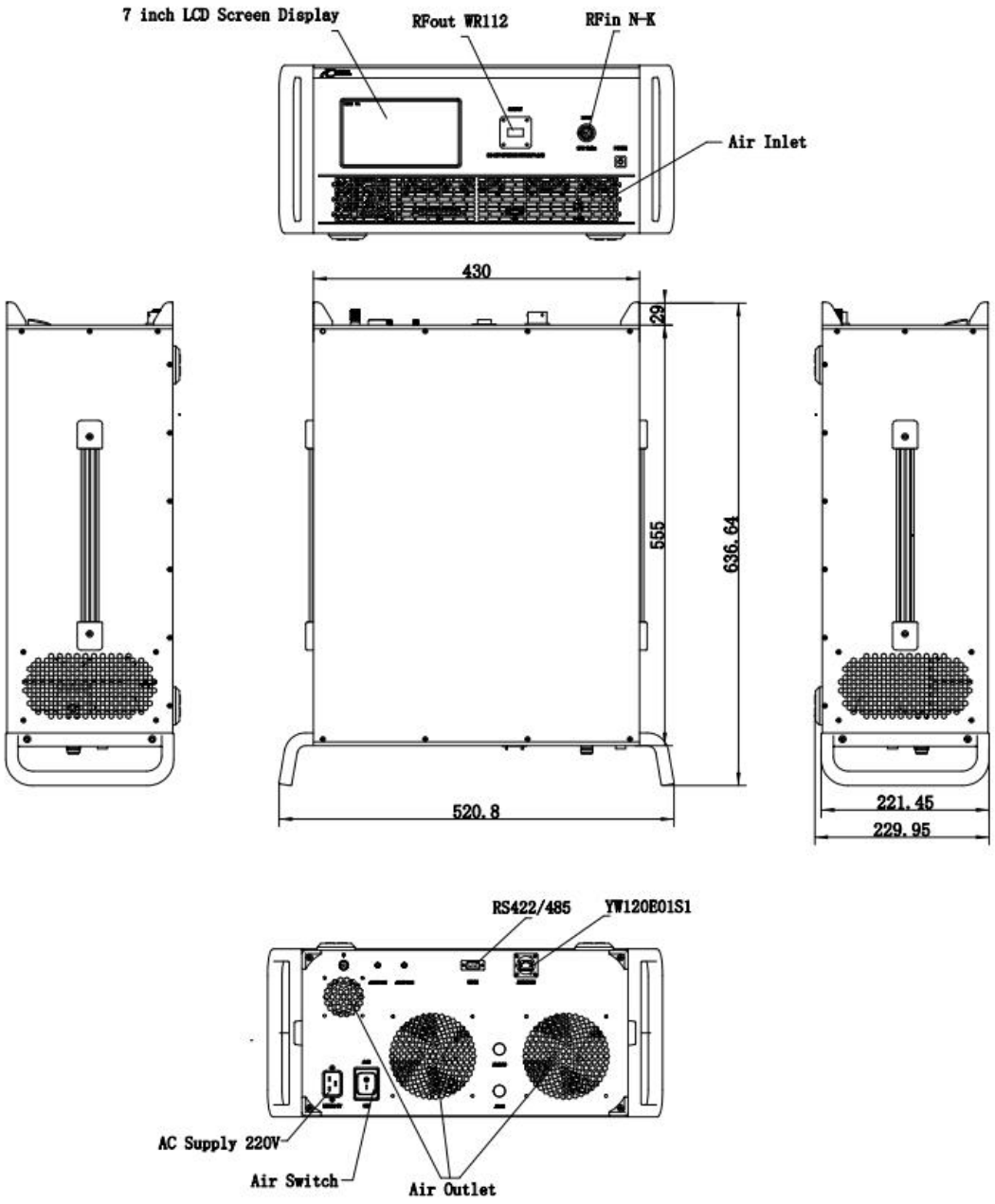
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting on/off 2, ALC automatic level control 3, Gain ajustment 4, Condition monitoring
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
显示功能 Display functions	1, Output/reflected power 2, Fault informaions
监控和控制 Remote control	RS422/Ethernet
冷却系统 Cooling system	Built in Cooling system,forced air cooling

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+40	℃
存储温度 Non-operating Temperature*	-30		+50	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 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