

Solid State High Power Amplifier Systems

0.1-200MHz/62dB Gain/1500W Psat/220V AC**Model: TLPA0.1M200M-62-62-P-BC**

TLPA0.1M200M-62-62-P-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.1 to 200MHz 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: 0.1-200MHz
- Gain: 62dB Min
- Psat Output Power: 1500W 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	0.1-200			MHz
功率增益 Power Gain	GP	62			dB
增益平坦度 Gain flatness	ΔGL			±2.5	dB
线性输出功率 Output P1dB	P1dB	1000			W
饱和输出功率 Output Psat	Psat	1500			W
杂散 Spurious	Spur			-50	dBc
谐波 Harmonics@Pout=1000W	HAM			-15	dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac		220		V AC
功耗 Power Consumption	Pdiss			4000	W
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical Specifications:

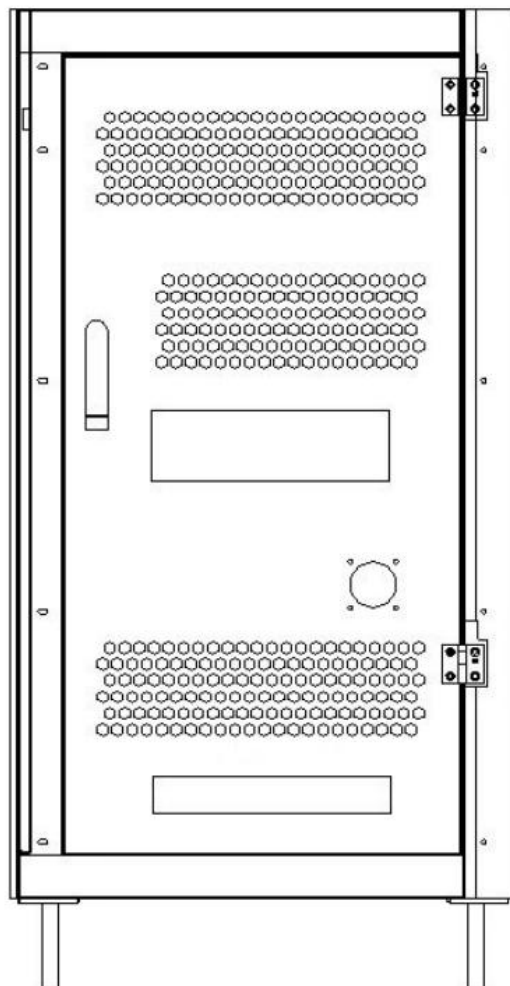
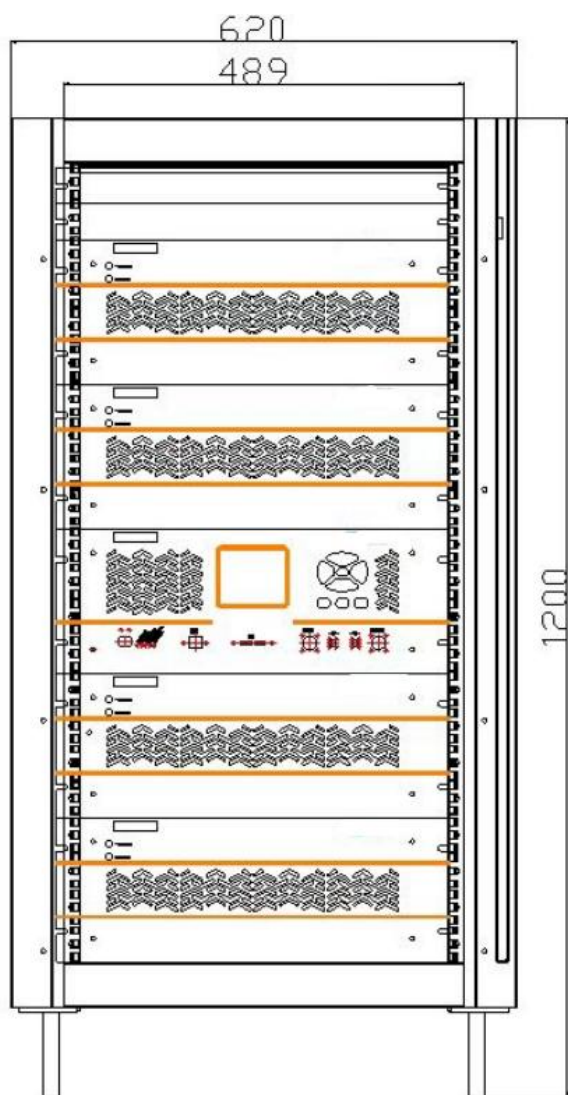
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/7/16 DIN Female	
正向/反向耦合 Forward/Reverse Coupling	N Female/N Female	
通信接口 Communication Connector	Ethernet/GPIB	
尺寸 Size	600*800*1200	mm
重量 Weight	≤300	Kg

绝对最大值 Absolute Maximum Ratings:

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

外形图 Outline Drawing:

Unit:mm



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting On/Off
内置保护功能 Protection functions	1,Over TEM(70°C) 2,Over voltage 3,Over current 4,Over VSWR(5.0,adjustable) 5,Over excitation 6,Dual Directional Coupler
监控和控制 Remote control	GPIO/Ethernet
冷却系统 Cooling system	Built in Cooling system,forced air cooling

Paid options:Amplifier gain is adjustable, support manual or software control, real-time status of the amplifier display.

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+40	°C
存储温度 Non-operating Temperature*	-30		+50	°C
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
TLPA0.1M200M-62-62-P-BC	Solid State High Power Amplifier Systems 0.1-200MHz,Gain:62dB,Psat:1500W,220V AC,Built in Fan Cooling	Rev.1.1