

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

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	0.1-200			MHz
Power Gain	GP	62			dB
Gain flatness	ΔGL			± 2.5	dB
Output P1dB	P1dB	1000			W
Output Psat	Psat	1500			W
Spurious	Spur			-50	dBc
Harmonics@Pout=1000W	HAM			-15	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			4000	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/7/16 DIN Female	
Forward/Reverse Coupling	N Female/N Female	
Communication Connector	Ethernet/GPIB	
Size	600*800*1200	mm
Weight	≤ 300	Kg

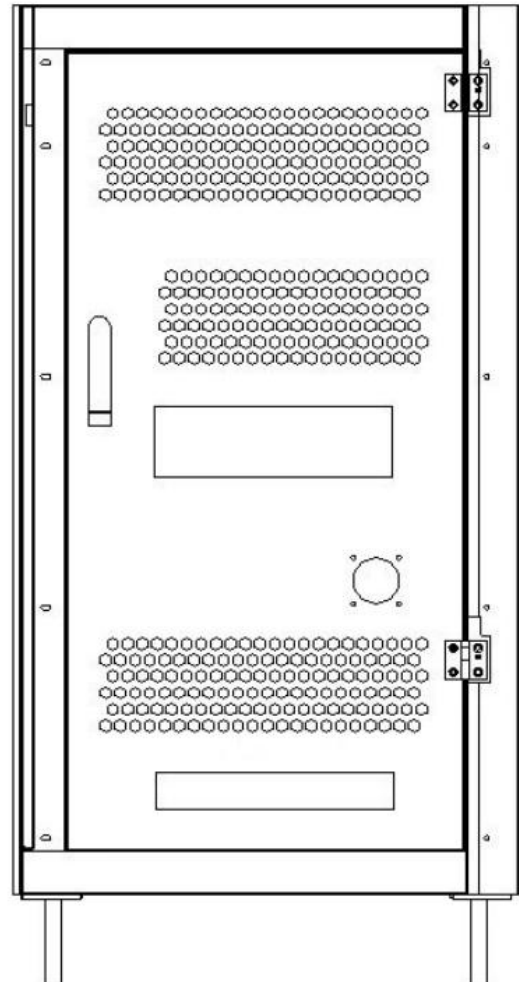
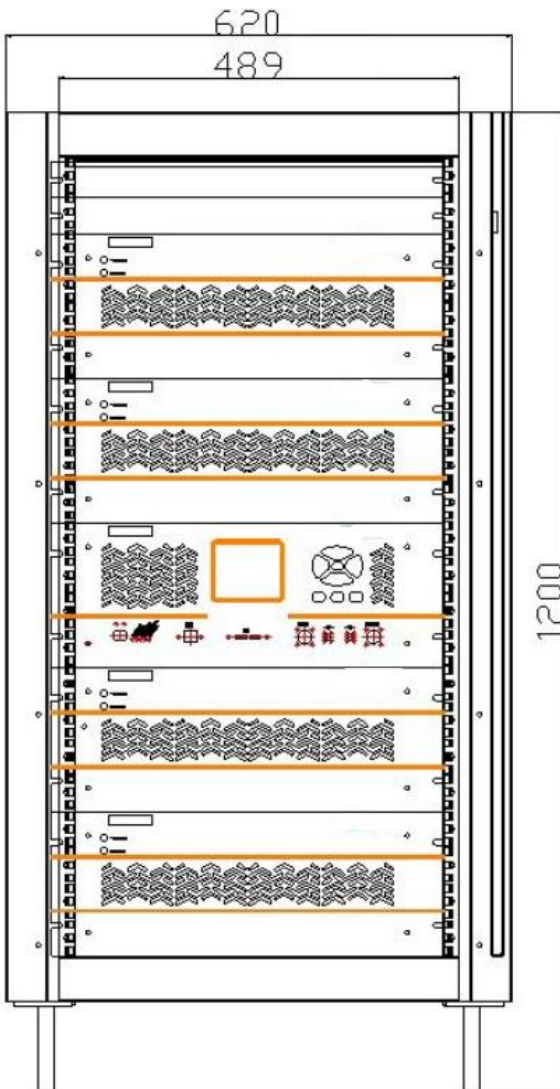
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

Regulatory Compliance:



Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off
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
Remote control	GPIO/Ethernet
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.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°C
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
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