

Solid State High Power Amplifier Systems

6-18GHz/56dB Gain/56dBm Psat/380V AC

Model: TLPA6G18G-56-56-BC

TLPA6G18G-56-56-BC is a solid state high power amplifier systems provides high output power and high gain across the 6 to 18 GHz frequency range. The amplifier features a built-in 380V 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: 6-18GHz
- 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	6		18	GHz
Power Gain	GP	56			dB
Gain flatness	Δ GL		± 4.5		dB
Output Psat	Psat	56			dBm
Output P1dB	P1dB		52		dBm
Spurious@Pout=56dBm	Spur			-60	dBc
Harmonics@Pout=56dBm	HAM			-15	dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		380		V AC
Power Consumption	Pdiss			7	KW
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

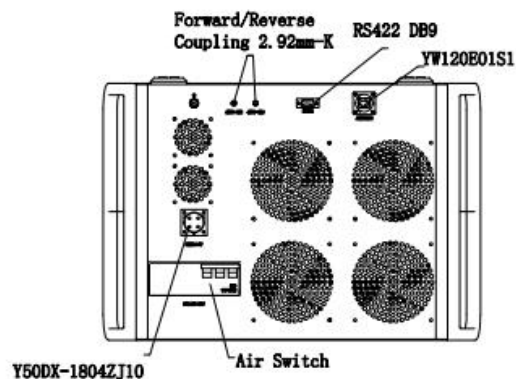
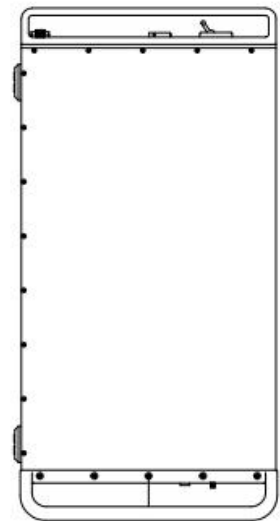
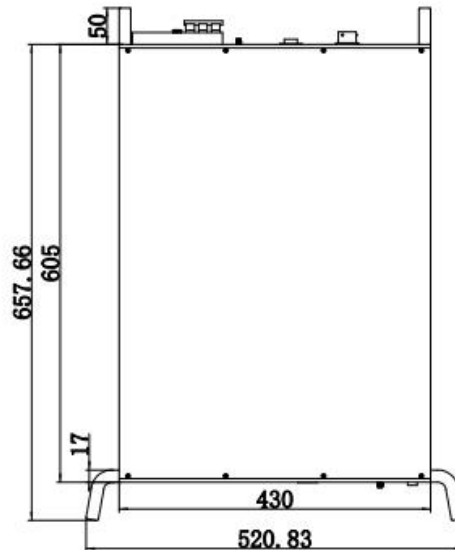
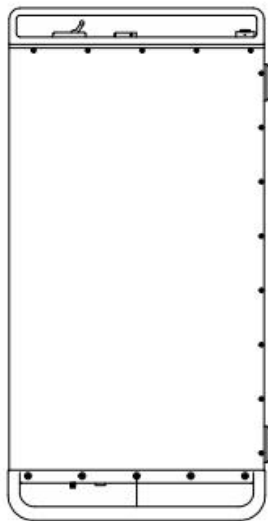
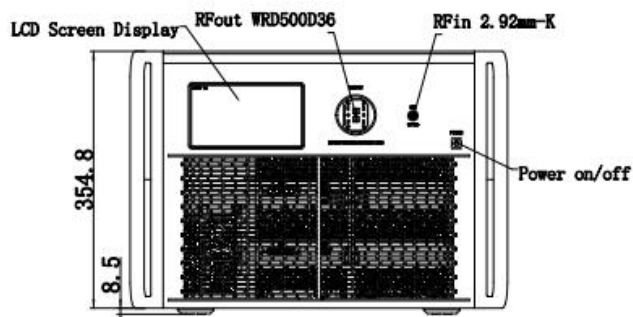
Parameter	Value	Units
Input /Output Connector	2.92mm Female/WRD500D36	
Network port Communication	RS422/LAN	
Size	19 Inch 8U*550 depth	
Weight	≤ 50	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Key Features:

Parameter	Advantages
Control functions	Power setting On/Off
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Remote control	RS422/LAN/GPIB/USB
Cooling system	Built in Cooling system,forced air cooling

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:

ase Number	Description	Revision
TLPA6G18G-56-56-BC	Solid State High Power Amplifier Systems 6-18GHz, Gain:56dB, Psat:56 dBm, 380V AC, Built in Fan Cooling	Rev.1.0