

**Model:TLPA80M1G-57-57-BC**
**Solid State High Power Amplifier Systems  
 80-1000MHz,Gain:57dB,Psat:57dBm**
**Feature:**

- Ultra Wide Band: 80-1000MHz
- Gain: 57dB Min
- Psat Output Power: 57dBm
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output


**Electrical Specifications:**

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	80-1000			MHz
Gain	GP	57	60		dB
Gain Flatness	$\Delta$ GL		$\pm$ 2.0	$\pm$ 3.0	dB
Gain Adjust Range	$\Delta$ GR		30		dB
Output P1dB	P1dB		53		dBm
Output Psat	Psat	57	58		dBm
Spurious	Spur			-70	dBc
Harmonics @ P1dB (typ)	HAM		-15		dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Supply Current	I ac	16A@220V AC			A
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

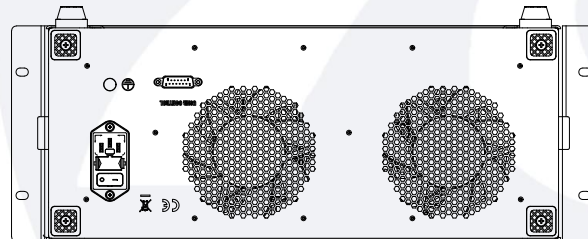
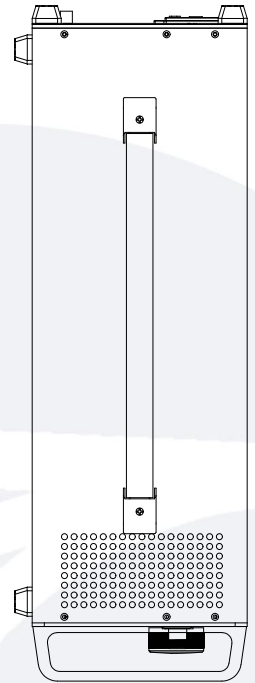
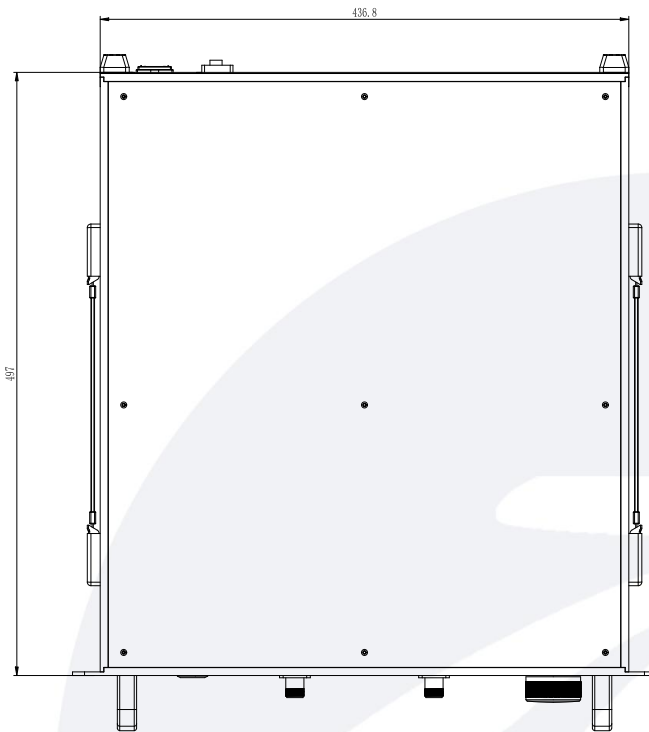
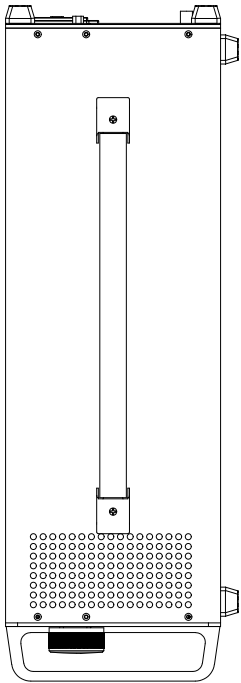
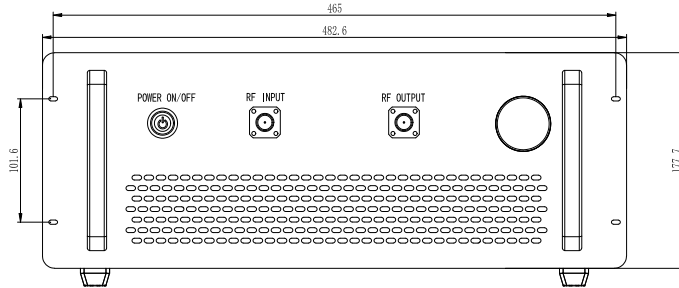
Parameter	Value	Units
Input /Output Connector	N Female	
Com. Interface	RS232, USB	
Size	4U*500 depth	mm
Weight	25	kg

**Absolute Maximum Ratings:**

Parameter	Value
RF INPUT POWER	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

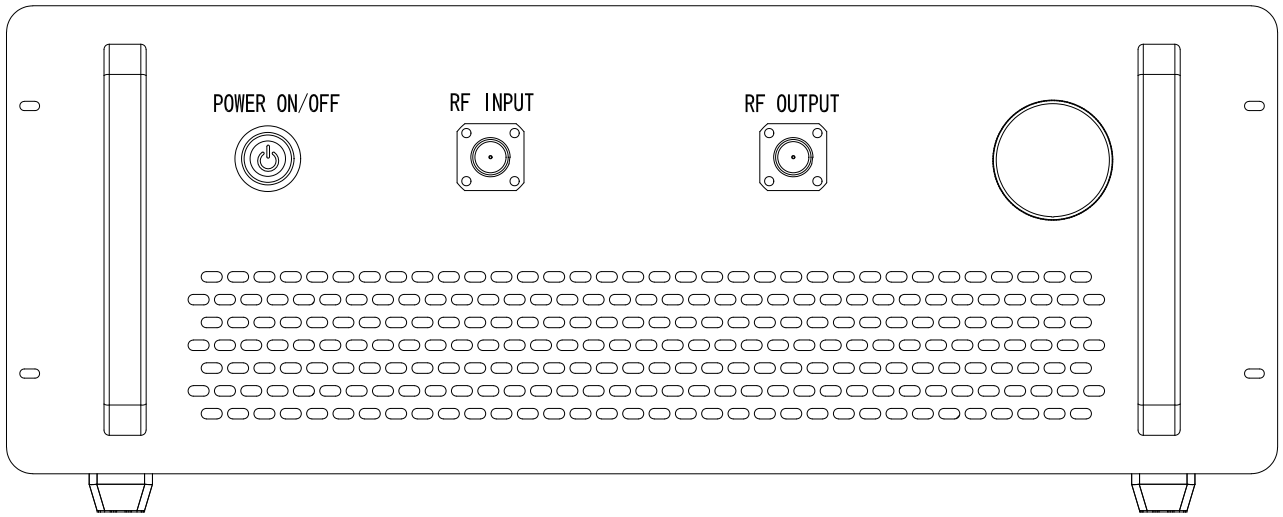
Outline Drawing:

Unit: mm



Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

Parameter	Advantages
Control functions	1, Power setting On/Off
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Cooling system	Built in Cooling system,forced air cooling

**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			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			

**Ordering Information:**

Part Number	Description	Revision
TLPA80M1000M-57-57-BC	Solid State High Power Amplifier Systems 80-1000MHz, Gain:57dB, Psat:57dBm, 220V AC, Built in Fan Cooling	Rev.1.0