

**Model: TPA80M1G-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


**电气特性 Electrical Specifications:**

参数Parameter	代码 Symbo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW	80-1000			MHz
增益 Gain	GP	57	60		dB
增益平坦度 Gain Flatness	$\Delta$ GL		$\pm 2.0$	$\pm 3.0$	dB
增益可调范围 Gain Adjust Range	$\Delta$ GR		30		dB
线性输出功率 Output P1dB	P1dB		53		dBm
饱和输出功率 Output Psat	Psat	57	58		dBm
杂散 Spurious	Spur			-70	dBc
谐波 Harmonics @ P1dB (typ)	HAM		-15		dBc
输入驻波 Input VSWR	VSWRin		1.5	2.0	:1
交流电压 AC Voltage	Vac	110	220		V AC
交流电流 AC Supply Current	I ac	16A@220V AC			A
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical Specifications:**

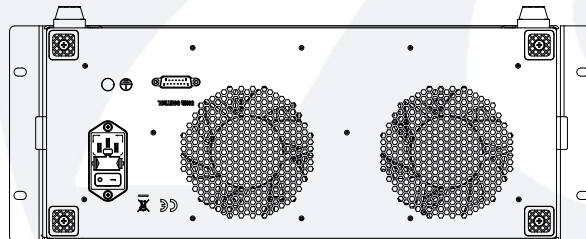
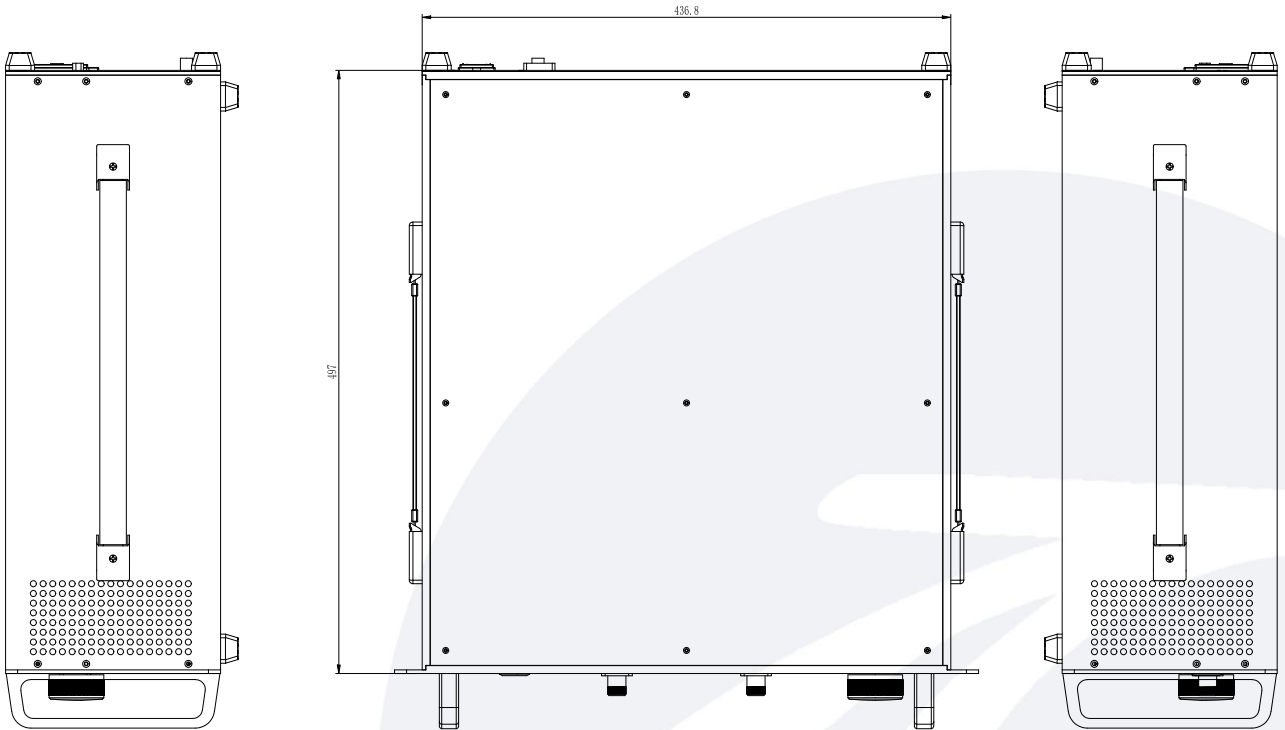
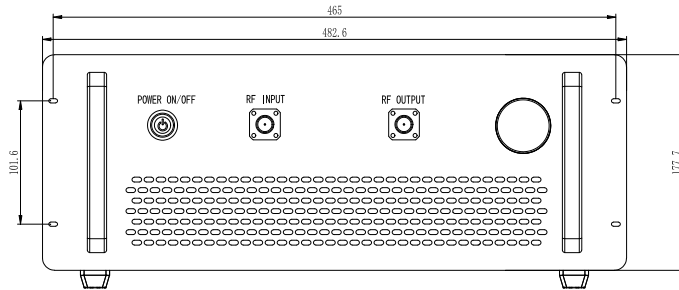
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	N Female	
通信接口 Com. Interface	RS232, USB	
尺寸 Size	4U*500mm深度	
重量 Weight	25	kg

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
输入功率 RF INPUT POWER	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

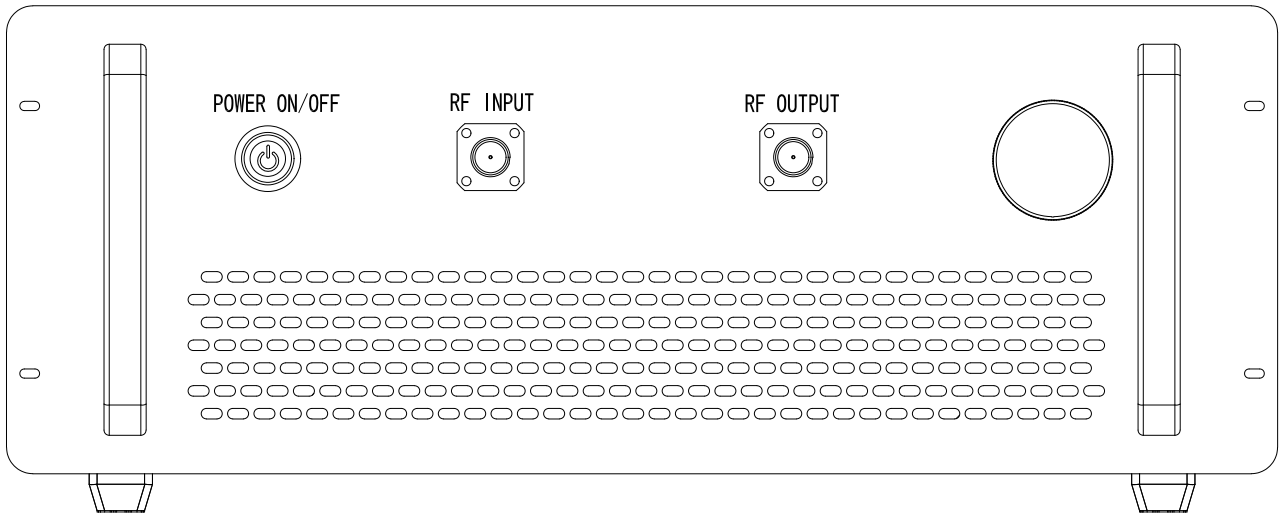
外形尺寸Outline Drawing:

Unit: mm



外形尺寸 Outline Drawing:

Unit: mm



主要功能 Key Features:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

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 2, Over voltage 3, Over current protection 4, Over VSWR
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	-45		+50	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			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			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号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