

**Model: TLPA6G18G-50-51-BC**
**Solid State High Power Amplifier Systems  
 6-18GHz, Gain: 50dB, Psat: 51dBm, 220V AC**
**Feature:**

- Ultra Wide Band: 6-18 GHz
- Gain: 50 dB Min
- Psat Output Power: 51 dBm Min
- Protection: Over TEM, over voltage, over current protection.
- 50 Ohm Matched Input / Output


**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	6-18			GHz
增益 Power Gain	50			dB
增益平坦度 Gain flatness		±3.5		dB
饱和输出功率 Psat	50	51		dBm
增益可调范围 Gain adjustable range		31.5		dB
增益可调步进 Gain adjustable Step		0.5		dB
杂散 Non-Harmonic Spurious		-60		dBc
谐波 Harmonics@Pout=50W			10	dBc
输入回拨损 Input Return Loss			-10	dB
输入功率 Input Power		0	10	dBm
交流电压 AC Voltage		220		V AC
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

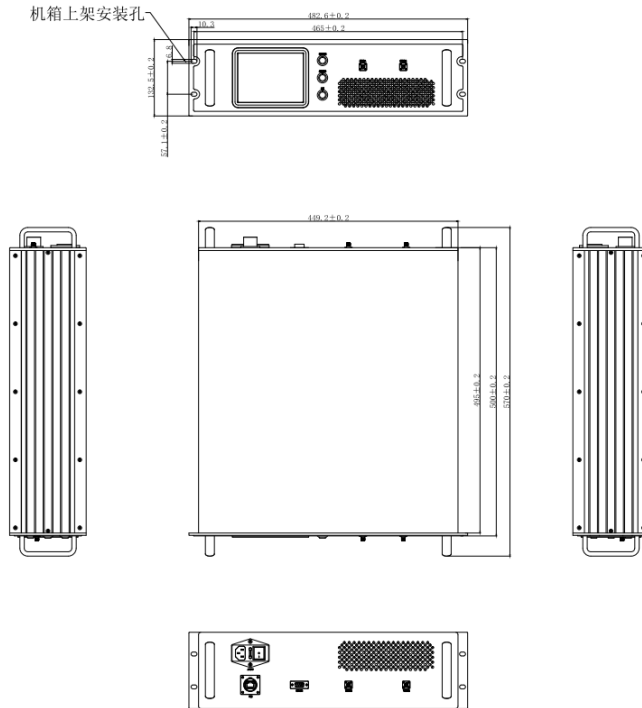
参数Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	SMA/N Female	
AC加电控制 AC Power Interface	Air switch	
尺寸 Size	19 Inch 4U	
重量 Weight	30	Kg

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	260V AC
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



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制和监控 Remote Control	Ethernet RJ-45 TCP/IP
控制功能 Control functions	1, Gain/power setting with 31.5dB range 2, ALC On/ Off
监控功能 Monitoring functions	1, Forward Power 2, Temp Fault
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current protection
冷却系统 Cooling system	Front to back forced air cooling fans makes this ideal for usage in test equipment racks

### 温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-20		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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
TLPA6G18G-50-51-BC	Solid State High Power Amplifier Systems, 6-18GHz, Gain:50dB, Psat:51dBm, 220V AC	Rev.1.1