

Power Source Specification

2450MHz/57dBm Psat

Model: TLS2450M-57-57-BC

TLS2450M-57-57-BC is a power source specification with a minimum Psat of 57 dBm at the 2450MHz frequency point. The power source specification features a built-in 380V power supply, making it easy to use in most lab environments. The RF output port is WR340.

Features:

- Frequency point: 2450MHz
- Output Power Psat: 57dBm Min
- Protection: Over TEM, over voltage, over current, load VSWR protection
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter		Min	Typ	Max	单位 Units
频率范围 Frequency range			2450		MHz
饱和输出功率 Output Psat		57			dBm
功率稳定性 Power Stability				±0.02	dB
ALC范围 ALC Range			30		dB
ALC步进 ALC Step	@300-500W range		10		W
	@50-300W range		5		
	@10-50W range		1		
	@1-10W range		0.5		
杂散抑制 Spurious Suppression@Pout=60dBm		50			dBc
谐波抑制 Harmonics Suppression@Pout=60dBm			20		dBc
输出驻波 Output VSWR			1.5		:1
参考信号 Reference Signal		Internal			
频率误差 Frequency Offset			±50		ppm

电气特性 Electrical Characteristics:

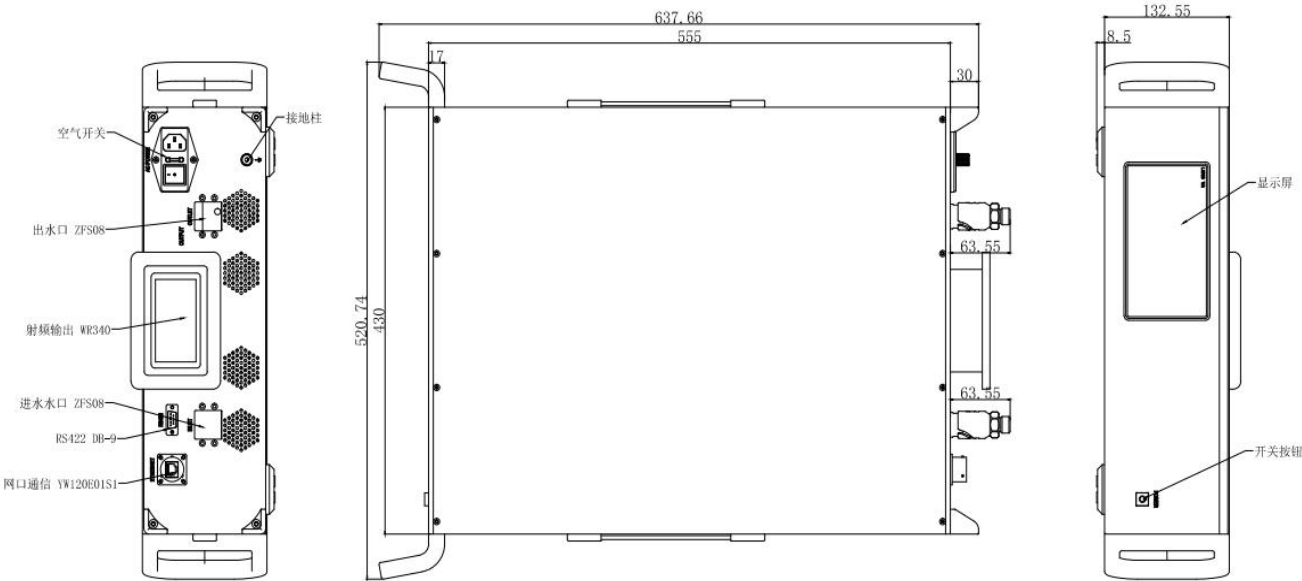
参数 Parameter	Min	Typ	Max	单位 Units
交流电压 AC Voltage		220		V AC
功耗 Power Consumption		900		W
功率源效率 Power Source Specification Efficiency@Pout =60 dBm		60		%
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF输出接口 RF Output Connector	WR340	
交流供电接口 AC Supply Connector	220V/10A standard socket	
通信接口 Communication Connector	DB9/RJ45	
液冷接口 Liquid Interfaces	Inlet/outlet:ZFS-08	
尺寸 Size	19 Inch 3U*600 depth	mm
重量 Weight	≤40	Kg

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting On/Off 2,ALC automatic level control 3,Gain control
内置保护功能 Protection functions	1, Over TEM: $\geq +80^{\circ}\text{C}$ case temp shutdown $\geq +45^{\circ}\text{C}$ environment temp shutdown $\geq +40^{\circ}\text{C}$ Coolant temp shutdown 2, Over DC voltage: $\geq 110\%$ shutdown 3, Under DC voltage: $\leq 90\%$ shutdown 4, Load VSWR protection:The unit disables RF when reverse power exceeds the safe level of 3:1 VSWR or reduces power by 6dB
监控和控制 Remote control	RS422/LAN
冷却系统 Cooling system	Built in Cooling system,liquid cooling

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	0		+40	$^{\circ}\text{C}$
存储温度 Non-operating Temperature*	-10		+50	$^{\circ}\text{C}$
相对湿度 Relative humidity			95	%
海拔 Altitude	3,000			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			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLS2450M-57-57-BC	Power Source Specification 2450MHz, Psat:57dBm,220V AC,Built in liquid Cooling	Rev.1.0