

Power Source Specification

2450MHz/60dBm Psat

Model: TLS2450M-60-60-BC

TLS2450M-60-60-BC is a power source specification with a minimum Psat of 60 dBm at the 2450MHz frequency point. The power source specification features a built-in 220V power supply, making it easy to use in most lab environments. The RF output port is WR340.

Features:

- Frequency point: 2450MHz
- Output Power Psat: 60dBm Min
- Protection: Over TEM, over voltage, under voltage, load VSWR protection
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

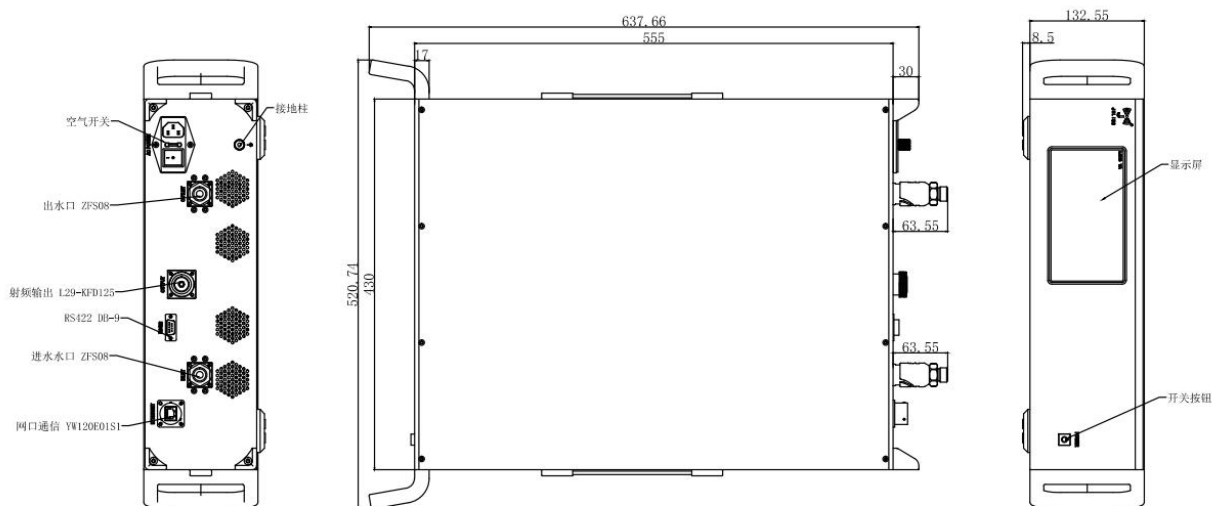
Parameter		Min	Typ	Max	Units
Frequency range			2450		MHz
Frequency Error			±50		ppm
Output Psat		60			dBm
ALC Range			30		dB
ALC Step	@300-1000W range		50		W
	@50-300W range		15		
	@10-50W range		2.5		
	@1-10W range		1		
Output VSWR			1.5		:1
Power Stability				±0.02	dB
AC Voltage			220		V AC
AC Efficiency @Pout =60 dBm			50		%
Power source Efficiency@Pout =60 dBm			60		%
Impedance			50		Ohms

Mechanical Specifications:

Parameter	Value	Units
RF Output Connector	WR340	
AC Supply Connector	220V/10A standard socket	
Communication Connector	DB9/RJ45	
Liquid Interfaces	Inlet/outlet:ZFS-08	
Size	19 Inch 3U*600 depth	mm
Weight	≤40	Kg

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control 3, Gain control
Protection functions	1, Over TEM: ≥+80°C case temp shutdown ≥+45°C environment temp shutdown ≥+40°C Coolant temp shutdown 2, Over DC voltage: ≥110% shutdown 3, Under DC voltage: ≤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
Remote control	RS485/LAN
Cooling system	Built in Cooling system, liquid cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	0		+40	°C
Non-operating Temperature*	-20		+70	°C
Relative humidity			95	%
Altitude	3,000			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:

Base Number	Description	Revision
TLS2450M-60-60-BC	Power Source Specification 2450MHz, Psat:60dBm,220V AC,Built in Liquid Cooling	Rev.1.1