

# APC-2450MHz-2kW

## Solid State Power Generator

APC-2450-2000 solid state power generator is specifically used for solid state microwave equipment in ISM field , to provide CW/PULSE adjustable power of 1W- 2KW with center frequency 2450MHz ; PLL phase-locked technology ensure a high frequency stability ; Built in circulator and load enable the SSPG adapt to kinds loads that have different VSWR ; Reasonable protection circuit guarantee a reliable operation.

### Technical parameters

Item	Min.	Typ.	Max.	Unit
Freq.		2450		MHz
Freq. error	-50		+50	ppm
MW leakage			5	mW/cm <sup>2</sup>
Rated output power stability		3	5	%
Output power		2000	2200	W
Output power adjustable range	1	2000		W
Output power adjustable step	1			W
Output phase ( optional )	0		360	°
Phase adjustable step ( optional )	5.6			°
VSWR		1.5	4	-
Harmonic		-40		dBc
Stray		-45		dBc
Output impedance		50		Ω
Operation temperature	0		70	°C
Overall efficiency		40		%
Overall power consumption			2500	W

### Pulse parameter

Item	Min.	Typ.	Max.	Unit
Rise time			200	nS
Fall time			200	nS
Pulse duration	10		1000	uS
Duty cycle adjustable range	5		90	%

**Note : pulse trigger way : internal trigger , TTL level**

### Work mode

CW

Pulse

CW and Pulse

### Control way

Remote communication control RS232\RS485\Ethernet

Local control Touch LCD display

### Working Condition

Ambient temperature : -20°C-50°C

Relative humidity : ≤95%

Atmosphere pressure : 80kPa-106kPa



### Cooling way

- Circulating water cooling
- Inlet water temperature : +5 ~ +25℃
- Water flow : 11L/MIN

### Function

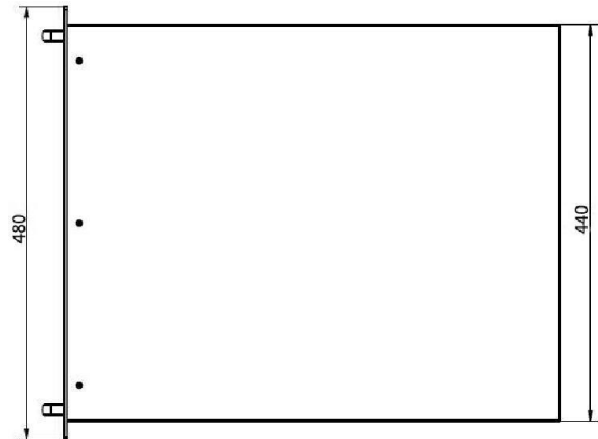
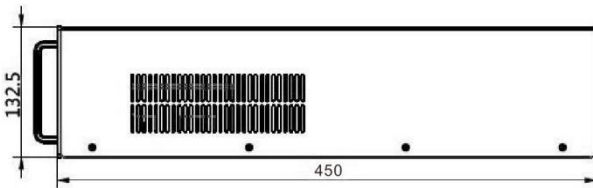
- Control :work status and parameters setting ,be available to view work status and set parameters ;
- Alarm : output power,SWR,current,temperature. Remote check alarm information ;
- Protection : over-VSWR,over-temperature,over-input power, over-current,over-voltage trigger a shut-down automatically ;

### Interface definition

- Power input ( Power ) : single phase AC 110-264V/50-60HZ , max current 15A
- RF output : BJ26
- Control interface (Operation) : DB9F/RJ45
- Inlet/ outlet of water : 1/4" fast connector

### Dimension

- Boundary dimension: 480mm\*132.5mm\*450mm, weight:26.5KG



(Boundary dimension)

### Application

Plasma actuation,MPT,microwave ignition of engine,solid state microwave oven,Thermal therapy apparatus,industrial heating equipment etc.