

# Aircooled Switch Mode Power Supply 1.5 kW - 2450 MHz

FM - MG1K5L02GH



## General Information



The aircooled Switch Mode Power Supply 1.5 kW 2450 MHz is a classic rectifier device which integrates modern power electronics with air cooled technology and offers highly efficient, energy-saving, reliable and stable power source. It is suitable for industrial microwave heating, drying equipment, medical sterilization equipment, microwave extraction experimental equipment, etc.

## Key Features / Technical Details

- High stability: rapid response, highly adaptable to grid electricity and load changes, output accuracy more than 1%.
- Complete automatic protection design: equipped with over voltage, under voltage, overheating, over current, no load, short circuit automatic protection to ensure the safety of production.
- Long operating life, low noise: operating life is doubled since heat dissipation performance and working conditions of semiconductor device have been greatly enhanced.
- Compact size, light weight: size and weight are 1/5-1/10 of silicon controlled rectifier, easy to layout, move and install.
- Function description:
  - Externally connect 0-5V control power output changes from 200W to 1600W, and the external control indicator A light on.
  - Power indicator (5 gear) shows 200W to 1600W status.

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## Specification

### Electrical and Technical Data

#### Input

Input voltage range	230 V <sub>AC</sub> ± 10 %
Input current	Max. 8.5 A
Frequency range	45-65 Hz
Power factor	>0.99 @ 1900 W and 230 V <sub>AC</sub>
Number of phases	single-phase

#### Output

Anode power	260-1580 W set in 45 W steps, regulated by CPU
Anode voltage	3.5-4.2kV (Application dependant)
Anode current	60-460 mA (Application dependant)
Filament voltage	3.3 V
Filament Current	7-10 A (Application dependant)
Compatible magnetron	General 1500 W industrial magnetron

#### Protection

Over voltage protection	≥ 300 V <sub>AC</sub>
Under voltage protection	≤ 168 V <sub>AC</sub>
Over current protection	≥ 10 A
Over temperature protection	75° C
No-load protection	yes
Short circuit protection	yes

### Air Cooling

Type of cooling	Forced air cooling (DC fan, please take dust-proof measures)
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### Mechanical Data

Dimensions W x H x D	170 x 86.5 x 247 mm
Total Weight	Approx. 1 kg

### Ambient Conditions

Use	Indoor use only
Operation mode	Continous operation
Ambient Temperature	-20° C to +60° C operating
Ambient humidity	10-90% humidity under non-condensing conditions
Efficiency	83%

