

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 _{AC} ± 10 % |
| Input current | Max. 8.5 A |
| Frequency range | 45-65 Hz |
| Power factor | >0.99 @ 1900 W and 230 V _{AC} |
| 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 _{AC} |
| Under voltage protection | ≤ 168 V _{AC} |
| 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) |
|-----------------|---|

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% |

