

Aircooled Switch Mode Power Supply 1 kW - 2450 MHz

FM - MG1K0L02GH



General Information



The **aircooled Switch Mode Power Supply 1 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 0-10V control power output changes from 200W to 1000W, and the external control indicator A light on.
 - Power indicator (5 gear) shows 200W to 1000W status.
 - HV light flashes and relay gets closed while power output is available.
 - Full power control switch controls the full power output, and the full power indicator Pout light on.
 - It is equipped with municipal electric instability protection function and will automatically shut down under extremely unstable electric utility.
 - Power factor correction (>98%) provides improved overall efficiency.

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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	>0.98 @ 1250 W and 230 V _{AC}
Number of phases	single-phase

Output

Anode power	260-1050 W set in 30 W steps, regulated by CPU
Anode voltage	3.5-4.2kV (Application dependant)
Anode current	60-300 mA (Application dependant)
Filament voltage	3.3 V
Filament Current	10 A
Compatible magnetron	General 1000 W industrial magnetron

Protection

Over voltage protection	275 V _{AC}
Under voltage protection	≤ 170 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)
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Mechanical Data

Dimensions W x H x D	135 x 86 x 220 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	84%

