

Solid State Microwave Generators

FM - SSMWG - 500 W 2.45 GHz



General Information



FM - SSMWG - 500W 2.45 GHz Microwave Generators from Fricke und Mallah Microwave Technology GmbH are compact, light-weight and highly reliable solidstate microwave generators which provide continuous wave at frequencies ranging between 2400 MHz and 2500 MHz (adjustable in 0.1 MHz-steps). This microwave generator features a **0-500 W CW** output and the power is easily adjustable in 0.1-W-steps. Meanwhile, it integrates real-time monitoring and full automatic operation (through an optionally available software) with a user-friendly control panel which is allowing users to do easy set-up and control.

FM - SSMWG - 500 W 2.45 GHz Microwave Generators operate perfectly with water cooling. They are the cutting-edge tool for industrial and scientific application.

Key Features / Technical Details

- Compact light-weight design: 19" 4HE rack mounted
- Output power 0- 500 W, adjustable in 0.1-W-steps
- Output frequency 2400-2500 MHz, adjustable in 0.1 MHz-steps
- Real-time measurement of reflected power and frequency
- Coaxial cable with low damping to enhance the high-power efficiency
- Water cooling system with 2x Coupling plugs (i.e. NW7.2; 9 mm; KSS9 NW7 BA)
- Rotary encoder on the front panel
- Built-in internal protection safety features to maximize generator's lifetime
- RS232 Interface, optional USB or Ethernet
- Dimensions: H 17.7 x W 48.2 x D 50.0
- Power Input 1300 W max.
- RF Efficiency up to 60%

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Specification

Electrical Data

Input

Line Input	100 V _{AC} - 260 V _{AC}
Line Frequency	50 Hz / 60 Hz
Input Power	1.3 kW max

Output

Output Power	0-500 W adjustable in 0.1-W-steps
Output Frequency	2400-2500 MHz adjustable in 0.1 MHz-steps

Control / Monitoring

Control Unit	Rotary encoder on the front panel
Interface	RS232, optional USB or Ethernet

Cooling

Water Cooling

Coupling	2 plugs (i.e. NW7.2; 9 mm; KSS9 NW7 BA)
Waterflow	2.5 - 12.5 l/min
Water temperature	+18° C to +29° C (non condensing)
Water quality	clear water

Mechanical Data

Rack Dimensions	19" x 4HE
Rack Total Width	482 mm
Rack Total Height	177 mm
Depth with Connectors applied	500 mm
Total Weight	approx. 18 kg

Ambient Conditions

Use	Indoor use only
Operation mode	Continuous mode
Ambient Temperature	Max. 40° C operating
Relative Humidity	non condensing
RF Efficiency	up to 60%

