

## 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. This microwave generator features a **0-500 W CW** output and the power is easily adjustable in 0,2-W-steps. Meanwhile, it integrates real-time monitoring and full automatic operation 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- 500W, adjustable in 0.2-W-steps
- Output frequency 2400-2500 MHz, adjustable in 1 MHz-steps
- Real-time measurement of reflected power and frequency
- Flexible coaxial cable with low damping to enhance the high-power efficiency
- AC input 230 VAC; 50/60 Hz
- Water cooling system with 2x Coupling plugs (NW7.2; 9mm; 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.
- Efficiency up to 60%

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### Electrical Data

#### Input

Line Input	230 V <sub>AC</sub>
Line Frequency	50 Hz / 60 Hz
Input Power	1.3 kW max

#### Output

Output Power	0-500 W adjustable in 0.2-W-steps
Output Frequency	2400-2500 MHz adjustable in 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 (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
Efficiency	up to 60%

