

# Solid State RF Generator

FM-SGW2450M0500W



## General Information



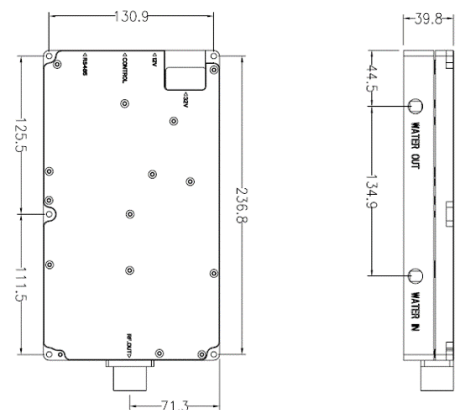
## Features

- Designed for industry heating and plasma process application
- Frequency hopping with power adjustment for stable processing
- Frequency band 2400 MHz – 2500 MHz, adjustable in 100 kHz steps
- Maximum 500 Watt output power
- 20 Watt - 500 Watt setting range, adjustable in 1 W steps
- Output load VSWR Protection
- High efficiency water cooling mechanical design in a compact and robust housing

## Specification

### Electrical and Technical Data

Frequency band	2.4 – 2.5 GHz
RF maximum output power	500 W 57 dBm
Efficiency (PAE)	≥ 54 %
Power setting range	20 - 500 W 1 W-steps
Frequency setting range	2400,2500 MHz 100 kHz-steps
Pulse frequency	1 – 20 kHz
Duty cycle	20 – 100 %
Pulse rise time	≤ 200 ns
Pulse fall time	≤ 200 ns
Circulator / Isolator	Yes
Power supply PA	32 V <sub>DC</sub>
Power supply SG	12 V <sub>DC</sub>
Maximum power consumption	max. 1000 W



### Environmental

Environment temperature	+ 10° to + 55° C
Cooling water temperature	+ 10° to + 30° C
Water flow	≥ 8 l/min.
MTBF	≥ 100000 h

### Mechanical Data

Dimensions of housing (WxHxD)	246 x 40 x 140 mm
Weight	2.5 kg

