

SOLID STATE MICROWAVE GENERATOR

Adjustable from 0 to 1 000 W

SAIREM's GMS1000 solid state generator provides continuous wave (CW) output power adjustable **from 0 to 1 000 W** at 2450 MHz. A minimal power of 900 W is guaranteed over the whole frequency range between 2400 and 2500 MHz.

Pinpoint Power and Frequency control:

- Flexibility for your process
- Possibility to use a resonant cavity design

This generator is designed for **scientific and industrial applications**, use with monomode or multimode MW applicators.

Protection against reflected power up to 100 % all time, and measurement of reflected power via a built-in isolator.



MAIN APPLICATIONS

LABORATORY APPLICATIONS

- Microwave-assisted liquid or solid chemistry
- Biochemistry
- Drying
- Sintering
- Melting
- Etc...

PLASMA APPLICATIONS

- Plasma generation with surface wave plasma source (Downstream, Surfaguide ...)

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KEY BENEFITS

DESIGN

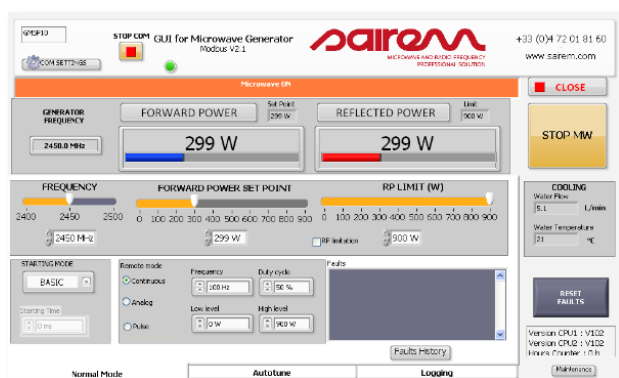
- **Power combiner** technology
- One compact and lightweight module
- Microwave energy **transmitted via waveguide**
- **Power adjustable** by 1 W step
- **Frequency adjustable** by 100 kHz step to optimize power transfer

TECHNOLOGY

- **Semiconductor technology:** no magnetron and therefore longer lifetime & no high voltage
- Excellent frequency spectrum even at low power
- **Built-in internal protection** against mismatching and reflected power in any phase
- **Built-in isolator** with automatic power reduction or switch off
- **True RMS detector** with linear measurement of reflected and forward power
- Very low ripple < 1 % RMS
- Manual or **automatic microwave frequency adjustment**
- **SAIREM Auto-tune algorithm** (automatic load-tuning): controls the frequency automatically in order to minimize reflected power¹



CONTROLS



- **LabVIEW™** software provided (no license requested) for all operating parameters and control status
- Alarm information, forward power and reflected power readings

¹ Patent WO/2012/146870

To get the complete data sheet :

- full specifications
- technical drawings

CONTACT US !

