

MICROWAVE GENERATOR

2 kW AT 2450 MHz

SAIREM's latest generation of microwave generators has been specially designed for customers' industrial applications and plasma generation. The 100 % digital architecture makes it a modern and highly reliable product, with smart power control.



APPLICATIONS

LABORATORY APPLICATIONS

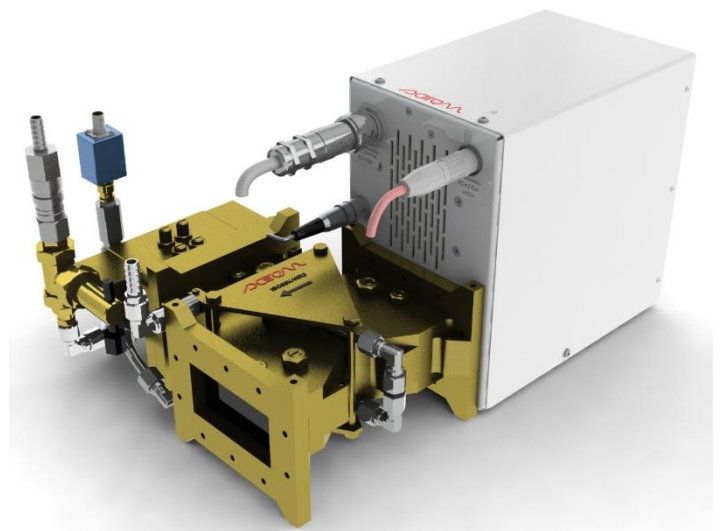
- Microwave-assisted liquid or solid chemistry
- Biochemistry
- Drying
- Sintering
- Melting
- Etc...

PLASMA APPLICATIONS

- CVD
- Plasma generation with surface wave plasma source (Downstream, Dual-stream ...)
- Nitriding
- Thin film deposition

INDUSTRIAL APPLICATIONS

- Microwave-assisted liquid or solid chemistry
- Drying
- Melting



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KEY BENEFITS

COMPACT 2 MODULES DESIGN

- 2 kW rackable Power Supply (19" 3U)
- 2 kW 2450MHz Microwave Head

BEST IN CLASS RELIABILITY

Start mode

- Standard mode ON/OFF
- Overshoot mode
- Ramp mode (adjustable from 0 to 30 s)

Various

- Fault list
- Filament hour counter

Configuration

- Preset and load configuration
- Language (English or French)



CONTROLS

- Local control
- Remote control
- Adjustable from 0 to 100 % of forward power
- Disjunction mode or limit mode of forward power (sound signal)

COMMUNICATION

- A remote control is available at the rear of the power supply unit via PROFIBUS®, CanOpen or Modbus (RS232 or RS485).

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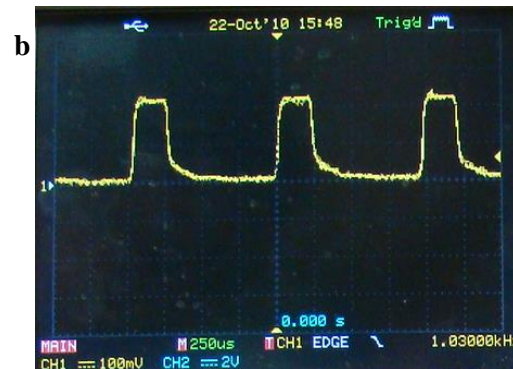
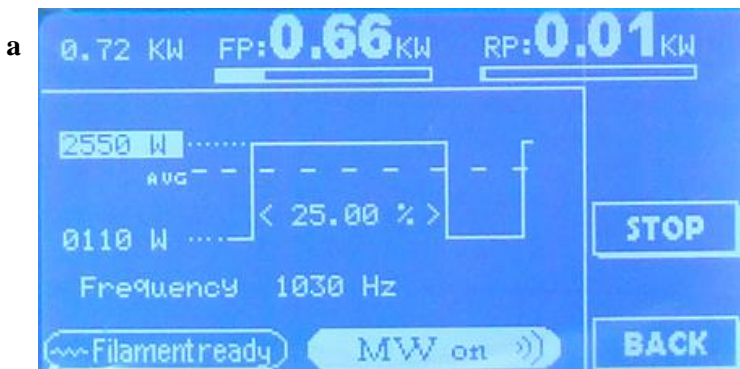
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CONTROL AND OPERATION FOR THE INTERNAL PULSE VERSION

The internal pulse mode integrated with the **IP** generator can be set up from the digital control panel of the power supply unit.

All operating pulse parameters are displayed on the screen as follows:

- Pulse maximum, minimum and average power level
- Pulse duty cycle and frequency
- Time ON/OFF



- a) Set up of the pulse on the digital display
b) corresponding microwave output measurement

Main pulse parameters:

- Frequency: from 0.25 to 2500 Hz
- Duty cycle: from 1 to 99 %, 10 % min at 1000 Hz, 20 % min at 2000 Hz
- Rise and fall time: < 50 μ s
- Minimum pulse duration: 100 μ s

To get the complete data sheet :

- full specifications
- technical drawings

CONTACT US !

