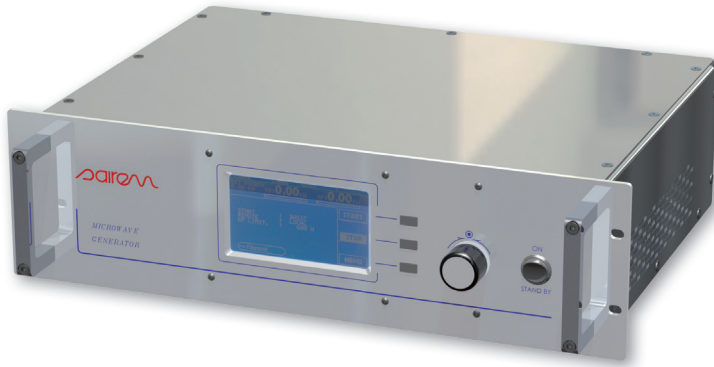


SOLID STATE 915 MHz MICROWAVE GENERATOR 600 W



▶▶ 600 W 915 MHz
Solid State Microwave Generator

DESCRIPTION

SAIREM's solid state generator at 915 MHz provides continuous wave (CW) and pulse mode operation with output power adjustable from 0 to 600 W at frequencies ranging from 902 MHz to 928 MHz.

This generator is designed for scientific and industrial applications, to be used with one or multiple MW applicators, to assure high reliability and small footprint. The protection against high reflected power & measurement of reflected power is performed via a built-in isolator.

KEY POINTS AND BENEFITS

- ▶ From 1 W to 600 W adjustable in 1 W step
- ▶ Adjustable frequency 915 MHz \pm 13 MHz
- ▶ Semiconductor technology (longer lifetime than magnetron & no high voltage)
- ▶ Very good frequency spectrum even at low power
- ▶ Built-in isolator with automatic power reduction or switch off
- ▶ Compact size & lighter weight: 1 single case, microwave energy transmitted via coaxial cable
- ▶ True RMS detector with linear measurement of reflected and forward power
- ▶ Very low ripple (< 0.2 % RMS) and high power efficiency
- ▶ Sairem auto-tune algorithm to control the frequency automatically to minimize the reflected power
- ▶ For industrial applications requiring multiple applicators, a water cooled solid state module is available; its simple operation is ensured via analogue and PROFIBUS® or CANOPEN® remote control

WHY CHOOSE SAIREM'S 915 MHz SOLID STATE MICROWAVE GENERATOR ?

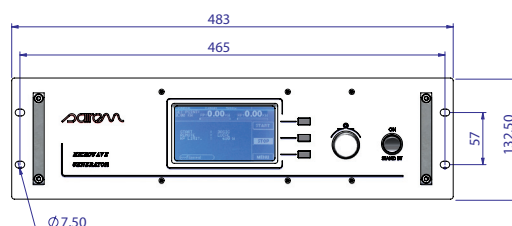
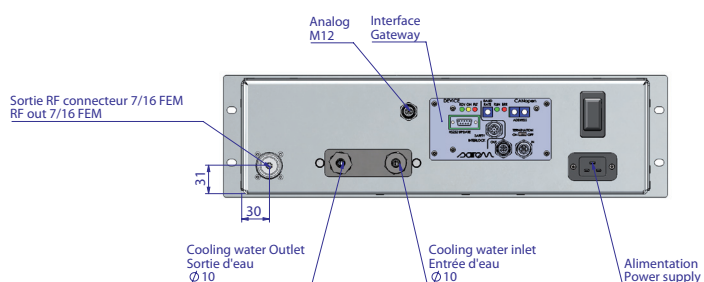
- ▶ Proven industrial experience for Sairem solid state generators. Hundreds of Sairem 2.45 GHz solid state generators and modules operating worldwide
- ▶ Sairem auto-tune algorithm reflected power reduction by automatic frequency adjustment
- ▶ Compatibility with existing Sairem plasma sources: Aura-Wave 915 MHz (soon Hi-wave and S-wave)
- ▶ Available as a compact rack version of 4 modules with a control unit touch screen and a user-friendly interface control unit
- ▶ Wide range of solid state generator available:
 - 200 W and 450 W at 2.45 GHz
 - 300 W to 4 kW at 27.12 and 13.56 MHz



▶▶ 600 W 915 GHz
Rear of the Solid State
Microwave Generator

SOLID STATE 915 MHz MICROWAVE GENERATORS 600 W

GLS 600 W



GLS 600 W

Frequency	915 MHz / Frequency resolution : 902 to 928 MHz adjustable with 100 kHz step
Output power	0 to 600 W (adjustable with 1 W step) $\pm 2\%$
Reflected power	Protected up to 300 W Automatic limitation of forward power to keep reflected power at 300 W maximum
Consumption	1500 VA max. at 600 W
Weight	13 kg
Dimensions	Height x width x depth 126 x 446 x 326
Cooling	Water cooled; flow and temperature sensors included
Matching	SAIREM auto-tuning algorithm: reflected power reduction by automatic frequency adjustment
Pulse mode	Rise time < 1 ms, fall time < 1.5 ms Duty cycle: 10 % to 90 %
FRPM	Forward and reflected power measurement Coupler with true RMS detector – linear measurement
Ripple	< 0.2 % RMS
Protection functions	VSWR (built-in isolator with automatic power reduction), excess temperature (overheating interlock), water flow
Control	- Rack version Local : front panel Remote: Modbus RTU RS232 (standard version) or RS485 or Ethernet, ProfiBus, CanOpen Analogue input set point for forward power control, analogue output for forward and reflected power - Module version: ProfiBus® or CanOpen®
Mains	1 phase, 110 V to 240 V, 50/60 Hz
Security	A safety connector ensures safety standard for machines and personnel
Operation requirements	Operating temperature: 5 to 35 °C (41 °F to 95 °F). Water temperature for cooling: 17 °C to 22 °C (63 °F to 72 °F). Ambient humidity level < 50 %

CONTACT US

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Your partner in Microwave & Radio Frequency professional solutions