

GS Series

Industrial Microwave Generators 915 MHz/896 MHz



MKS GS Series industrial microwave generators provide 15 kW to 100 kW power at 915 MHz or 896 MHz in a shielded cabinet with continuous powerline control, safety interlocks, a variety of interface options and optional remote control. The GS series design include MKS proven switch mode power supply systems with

continuous power control for rugged, lightweight and modular microwave generator systems. This solution allows for power upgrades for industrial installation needs, offering maximum flexibility in system design. Power supply section with active PFC (power factor correction) is available.

Product Components

- **Industrial Microwave Generators**

Shielded in a cabinet with safety interlocks for safe operation. Several layout options available (waveguide position, completely closed cabinet (no air exchange), remote head).

- **Waveguide Launcher**

The electromagnet, the magnetron, the high pressure fan, the filament transformer and the feed-thru necessary to exchange power and signals.

- **Main Switch**

Standard manual commands (Start/Stop/Reset/Power level), and the components to protect the input lines and current overload switches.

- **Control Units**

Allows direct control for all the magnetron functions including power output, operating conditions for set power level and control over all the main parameters of the magnetron (Remote control option: MBUS interface with Profibus, Modbus/TCP port or any other industrial bus required).

- **MPS Power System**

Modular configuration and ventilated in both the front and rear.

- **Power Factor Correction**

Active PFC integrated in the power supplies, back compatible with existing power supplies in the field is available.



Key Benefits

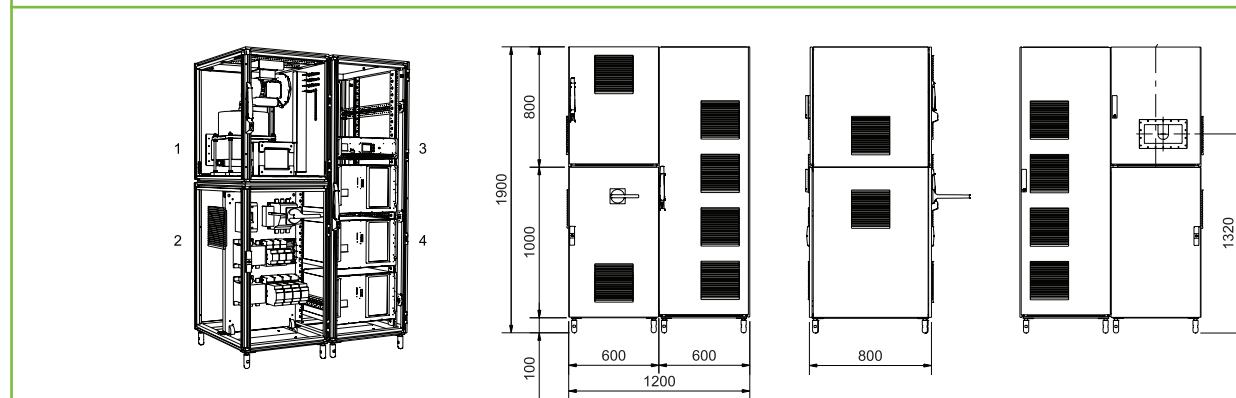
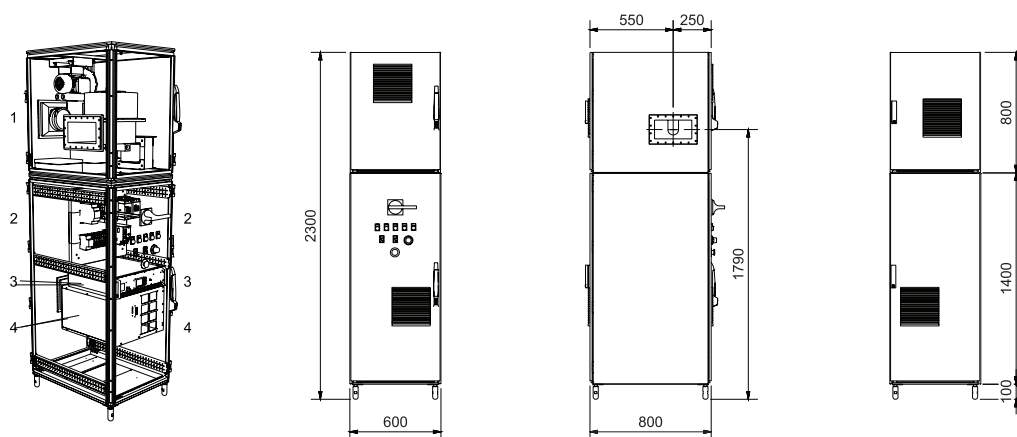
- Reliable, modular and cost-effective
- Light weight and compact industrial microwave generator system for flexible integration
- Redundancy-ready for enhanced availability
- Flexible input voltage: 3×400 VAC or 3×480 VAC (PFC option)

Specifications

Model	GS150	GS300	GS500	GS750	GS1000
Frequency*	915 MHz	915 MHz	915 MHz	915 MHz	915 MHz
MW Power	15 kW	30 kW	50 kW	75 kW	100 kW
Power Supply	MPS 24	MPS 48	MPS 72	MPS 96	MPS120
Line Input Voltage	• 3x400V, 50/60 Hz • 3x480V, 50/60 Hz	• 3x400V, 50/60 Hz • 3x480V, 50/60 Hz	• 3x400V, 50/60 Hz • 3x480V, 50/60 Hz	• 3x400V, 50/60 Hz • 3x480V, 50/60 Hz	• 3x400V, 50/60 Hz • 3x480V, 50/60 Hz
Exit Flange	CPR 975	CPR 975	CPR 975	CPR 975	CPR 975
Cabinet Dimensions	Base: 600x800 mm Height: 2200 mm (with adjustable feet)		Base: 1200x800 mm Height: 2200 mm (with adjustable feet)		

*All power levels available at 896 MHz.

Please contact your local MKS sales office for price and availability information.



Dimensional Drawings — 15 kW and 50 kW Generators
Unless otherwise specified, dimensions are nominal values in millimeters.