

Microwave Generator 6 kW, 2450 MHz

Set with Magnetronhead and Switch Mode Power Supply



Applications:

This System ist suitable for various applications. It is mainly designed for

- CVD
- Plasma
- Drying
- Heating

Magnetronhead with Isolauncher 6 kW 2450 MHz

FM - MH6K0WXGH20

Key Features

- 6kW HF-Power output
- 2450 +/-10 MHz
- Integrated filament transformer
- Integrated magnetron, water cooled
- Integrated Temperature switch
- Integrated Isolauncher
- Interlock: Arc detection and Magnetron overtemperature
- Fully enclosed in a compact housing
- Power Detector

Electrical and Technical Data

Output

Output Power	6kW
Fixed Frequency	2450 +/-10 MHz
Output Flange	IEC153: R26 / EIA: WR340

Magnetron

Type	MW6000NLLsL
Filament Voltage	5 +/- 0.2 V _{AC}
Filament Current	29 A _{AC}

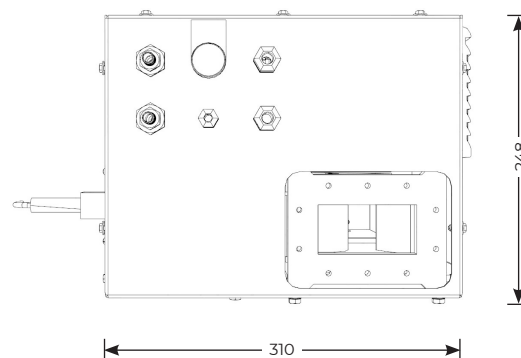
Cooling

Water Cooling

Static Water Pressure	max. 500 kPa
Water Flow	> 4 l/min.
Water Temperature	+18°C..+22°C
Water Quality	clear water

Mechanical Data

Dimensions of Housing (WxHxD)	310 x 248 x 390 mm
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Microwave Generator 6 kW, 2450 MHz

Set with Magnetronhead, Isolator and Switch Mode Power Supply



Low Ripple Switch Mode Power Supply 6 kW 2450 MHz

FM - MG6K0L4XG

Key Features

- 19" rack mounted
- Low Ripple Current $\leq 2\%$, ideally for plasma applications and other most applications
- CE- and CSA- Approval
- Stable filament control prolongs the magnetron life
- Microcontroller based monitoring and controlling of all-important magnetron operating parameters like high voltage, current and microwave
- Sophisticated Design allows the generator always working at the ideal operating point (high efficiency and longer magnetron lifespan)
- Low electromagnetic interference, improved fail-safe design against electromagnetic interference's
- Protective features to guard the magnetron and itself against failures
- Improved protective design to guard the person who accidentally touched the High Voltage
- Advanced alarm handling, all alarms can be displayed in a plain text Fieldbus-Interface

Also available:

- Integrated Display for system control without PLC



Electrical Data

Input

Line Input	3 Phase 400 / 440 / 575 V _{AC}
Line Frequency	50 Hz / 60 Hz
Input Power	9.92kVA @ 400V _{AC}
Maximum intake current	15.3A @ 380V _{AC}

Control / Monitoring

Power Adjustment Signal Range	0-10 V _{DC}
Interface	Profinet

Cooling

Air Cooling (2 equipped fans)

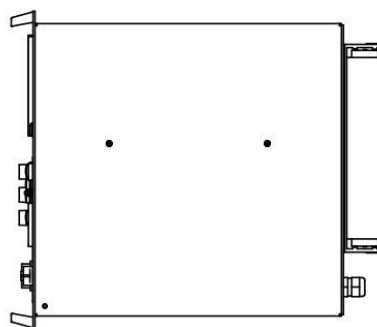
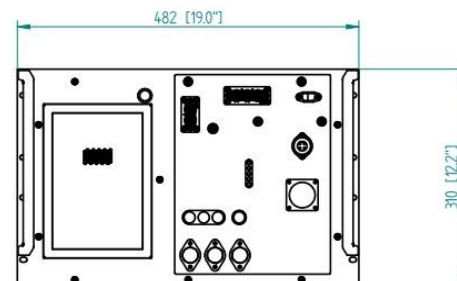
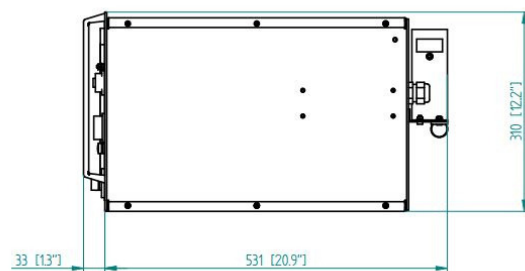
Intake airflow	Appx. 300 m ³ /h
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Mechanical Data

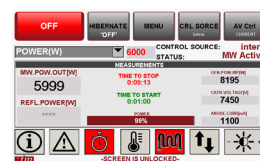
Front Panel Dimensions	19" x 7HE (482 x 311 mm)
Depth with Connectors applied	660 mm
Total Weight	Appx. 40 kg

Ambient Conditions

Ripple	$\leq 2\%$
Operation mode	Continous operation or Pulse
Ambient Temperature	Max. 40° C operating
Relative Humidity	80% @ 30°C to 50% @ 40°C
Efficiency	$\geq 90\%$
Use	Indoor use only



Also available:



Display for easy control