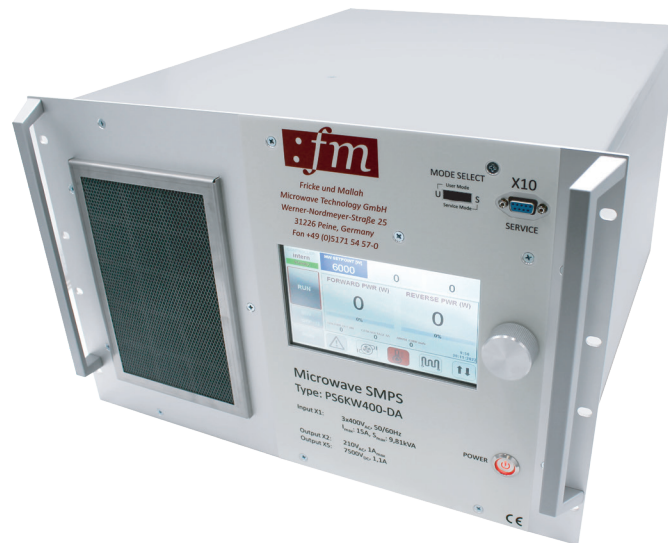


# AIR COOLED LOW RIPPLE SWITCH MODE POWER SUPPLY WITH TOUCH DISPLAY

FM - PS6kW MAGNETRON / 2.45 GHz



## GENERAL INFORMATION

**FM - Low Ripple Switch Mode Power Supply with Touch Display for 6 kW Magnetrons @ 2.45 GHz** is a series of aircooled power switch supplies. This model is able to power all 6 kW @ 2.45 GHz magnetrons on the market. Its output power can be regulated continuously between 600 - 6000 W by controlling through the PLC interface or fieldbus interface. The mains supply is available for 400 V and working perfectly with FM-PS 6kW Magnetrons Microwave Head.

It can also power other manufacturers' microwave heads, when electrically compatible. Additionally this model has many innovative protective features that enable the machine to work independently and always in a safe operating state.

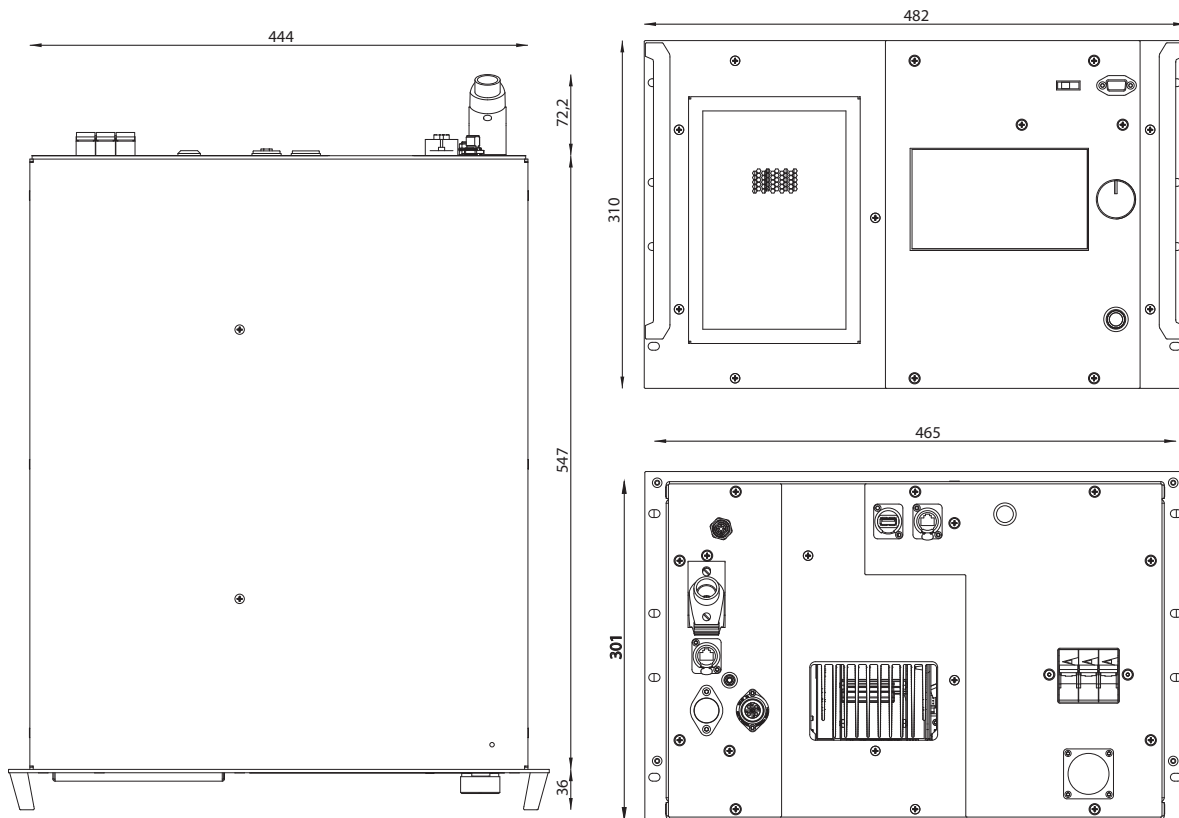
## KEY FEATURES I TECHNICAL DETAILS

- 7 inch Touch Display
- 19" rack mounted
- Low Ripple Current  $\leq 2\%$  , ideally for plasma applications and most other applications
- CE Approval
- Stable filament control prolong 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

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## SPECIFICATION

### Electrical and Technical Data

#### Input

Line Input	3 x 400 V <sub>AC</sub>
Line Frequency	50 / 60 Hz
Input Power	9.53 kVA @ 400 V <sub>AC</sub>
Maximum intake current	15.0 A @ 380 V <sub>AC</sub>

#### Output

Output Power Magnetron	6000 W
Output Current	1100 mA
Filament	Adjustable for all type of Magnetrons

#### Control / Monitoring

Interface	Profinet or Touch Display
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### Cooling

#### Air Cooling (with built-in fans)

Intake Airflow	Appx. 200 m <sup>3</sup> /h
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### Mechanical Data

Rackable	19" x 7U (482 x 311 mm)
Total Weight	Appx. 41 kg

### Ambient Conditions

Ripple	≤ 2 %
Operation mode	Continuous operation or Pulse
Ambient Temperature	Max. 40°C operating
Relative Humidity	80% @ 30°C to 50% @ 40°C
Efficiency	>90%