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

FM - PS10kW MAGNETRON / 2.45 GHz





## **GENERAL INFORMATION**

**FM - Low Ripple Switch Mode Power Supply with Touch Display for 10 kW Magnetrons @ 2.45 GHz** is a water and aircooled power. This model is able to power all 10 kW @ 2.45 GHz magnetrons on the market. Its output power can be regulated continuously between 1000 - 10000 W by controlling through the PLC interface or fieldbus interface. The mains supply is available for 400 V and working perfectly with FM-PS 10kW Magnetrons Microwave Head.

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

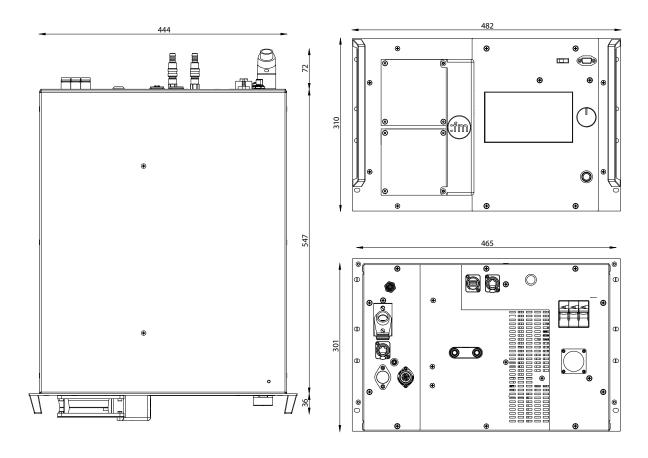
### **KEY FEATURES I TECHNICAL DETAILS**

- 7 inch Touch Display
- 19" rack mounted
- Low Ripple Current ≤ 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 efficency 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

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

FM - PS10kW MAGNETRON / 2.45 GHz





#### **SPECIFICATION**

#### **Electrical and Technical Data**

Input

Line Input Line Frequency Input Power Maximum intake current

Output

Output Power Magnetron
Output Current
Filament

**Control / Monitoring** 

Interface

Cooling

Air Cooling (with built-in fans)

Intake Airflow water flow water temp

**Mechanical Data** 

Rackable Total Weight

**Ambient Conditions** 

Ripple Operation mode Ambient Temperature Relative Humidity Efficiency 3 x 400 V 50 / 60 Hz<sup>C</sup> 16.7 kVA @ 400 V<sub>AC</sub> 25.5 A @ 380 V<sub>AC</sub>

10000 W 1600 mA

Adjustable for all types of Magnetrons

Profinet or Touch Display

Appx. 125 m<sup>3</sup>/h 4 l/m 20-25 °C

19" x 7U (482 x 311 mm) Appx. 43 kg

≤ 2 % Continous operation or Pulse Max. 40°C operating 80% @ 30°C to 50% @ 40°C >90%