



GENERAL INFORMATION

The BPA10kW microwave generator is an air-cooled power supply for a 10 kW / 2.45 GHz magnetron. This power supply is designed based on modular interleaving technology to reduce input and output ripple as well as having the ability to protect the magnetron from over voltage and over current.

The BPA10kW autonomously manages the operating status of the magnetron and adjusts the filament voltage according to the input power of the magnetron and switches off the output when alarm events such as overcurrent or overvoltage of the magnetron occur. It is built into a self-ventilated 19" aluminum housing with the 5-U height.

FEATURES

- Air cooling
- Resonance isolated ZCS/ZVS high frequency topology
- Supports all 10 kW Magnetrons on the market
- High efficiency
- Modular design - the SMPS can continue operating at lower power even if one (or more) module/cell fails
- High accuracy output current control
- Low ripple anode current
- Protections: Over temperature/ Over current/ Overvoltage/ Over load/ Under voltage/ Under load/ Short circuit
- High reliability (designed based on MIL-HDBK-338B and MIL-HDBK-217 standards)
- Able to be connect in parallel with similar SMPS
- Low noise SMPS
- Ability to control by PLC, PC, or Profinet

SPECIFICATION

Electrical and Technical Data

	BPA10kW380	BPA10kW400	BPA10kW480	BPA10kW600
Input voltage	380 V _{AC} ±10 %	400 V _{AC} ±10 %	480 V _{AC} ±10 %	600 V _{AC} ±10 %
Efficiency	up to 95 %	up to 96 %	up to 96 %	up to 97 %
Input frequency		47 Hz to 63 Hz		
Magnetron output power		1000 W to 10000 W		
Output voltage adaptivity		160 mA to 1600 mA		
Anode current variation range		8 kV to 10 kV		
Active operating temperature		-20 °C to 50 °C		
Working humidity		20 % to 90 % RH non-condensing		
Storage temperature, humidity		-30 °C to +70 °C, 10 % to 95 % RH non-condensing		
Withstand voltage		20 kV		



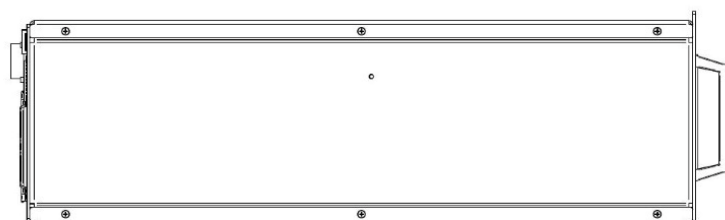
SPECIFICATION

Electrical and Technical Data

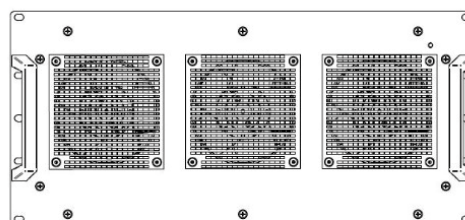
Measurement Unit Size (WxHxD)

744 x 221 x 483 mm

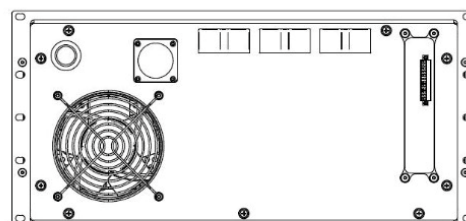
744



483



221





SPECIFICATION

Electrical and Technical Data

Measurement Unit Size (WxHxD)

584 x 275 x 394 mm

