



MAGNETRON POWER SUPPLY

THE MAGDRIVE 2000 is a switch-mode power supply designed to drive a 2kW industrial magnetron. In addition, it can be used to power a 1.5kW magnetron with some changes in the parameters that are read and controlled by the embedded CPU.

The power is adjusted in a seamless and wide span, enabling the Magdrive 2000 to adapt to various anode voltages and load conditions.

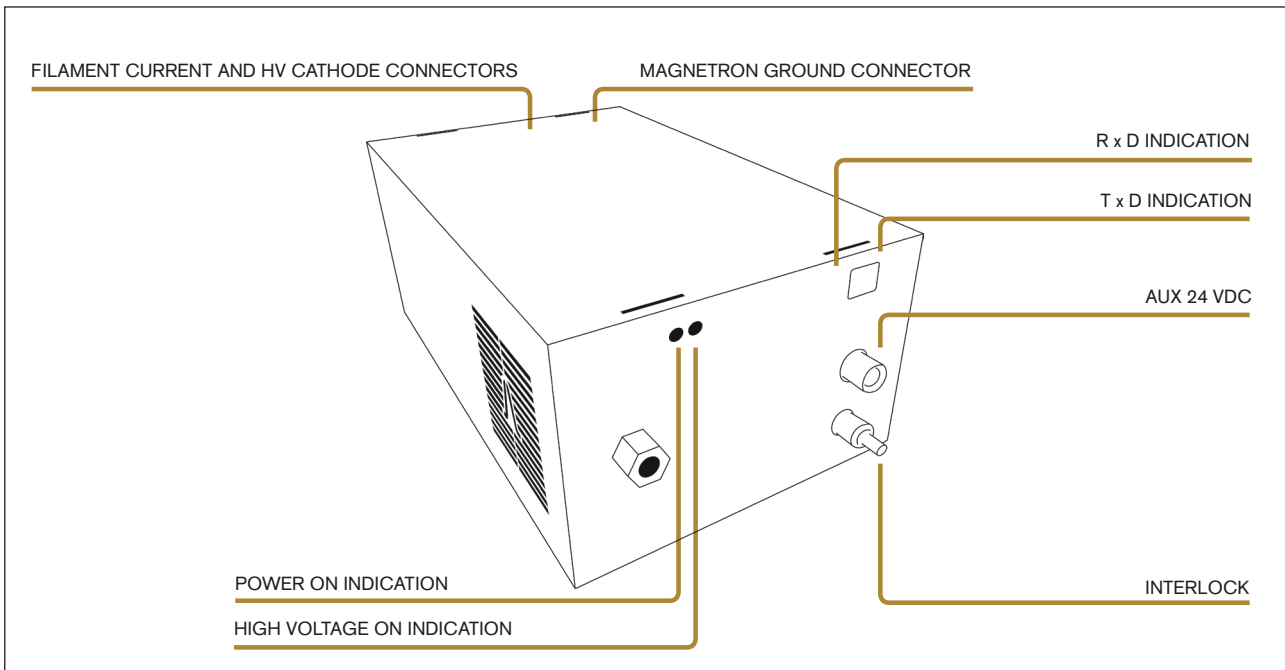
The behavior of the magnetron is monitored and regulated. The regulated filament increases the life span of the magnetron, making the Magdrive 2000 a reliable and stable source of power.

GENERAL FEATURES

- Designed for 1.5 kW or 2 kW 2450 MHz standard magnetrons
- Continuously variable output power level
- Internal filament current circuitry
- High efficiency
- Low weight
- Completely boxed with cooling fan
- RS232 port for control and parameter setting

MAGNETRON LONGLIFE FEATURES

- Regulated filament current supply
- Moding and arcing protection
- Optimization for narrow bandwidth settings



ELECTRICAL PERFORMANCE

INPUT DATA

Mains voltage 230-277VAC ±10%
 Mains frequency 50-60 Hz
 Power factor >0.95 @ 230VAC / 100% power

OUTPUT DATA

Anode power 300-2700W 1% steps. Regulated $P=U \cdot I$
 Anode voltage 4-4.5 kV (Application dependant)
 Filament current 10-20 A. Automatic reduction
 Efficiency >93% @ 100% power

CONTROL

Communication Optically isolated rs232
 Standalone @VAC or @closing contact
 Setpoints Anode, filament, protection levels
 Feedback Anode W, anode current, filament current, alarms, temp, running hours

APPROVALS AND ENVIRONMENT

2014/35/EU LVD

Standard Electrical Safety SS-EN 61 010-1

2004/108/EC EMC

Standard SS-EN 61326-1: 2013
 Emission SS-EN 61326-1:2013, SS-EN 61000-3-2:2006, -A1:2009, -A2:2009, SS-EN 61000-3-3:2008

Immunity

SS-EN 61000-4-2 through -8, SS-EN 61000-4-11

MECHANICAL DATA

Weight 6.1 kg
 Overall dimensions Length 360 mm
 Width 210 mm
 Height 160 mm

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