

# MAGNETRON POWER SUPPLY

THE MAGDRIVE1000 represents cutting edge technology regarding power supply for standard magnetrons.

A built in CPU circuit regulates the internal filament current circuitry and the anode power level applied to the magnetron.

The behaviour of the magnetron is monitored and regulated to ensure maximum magnetron lifetime under all load conditions.

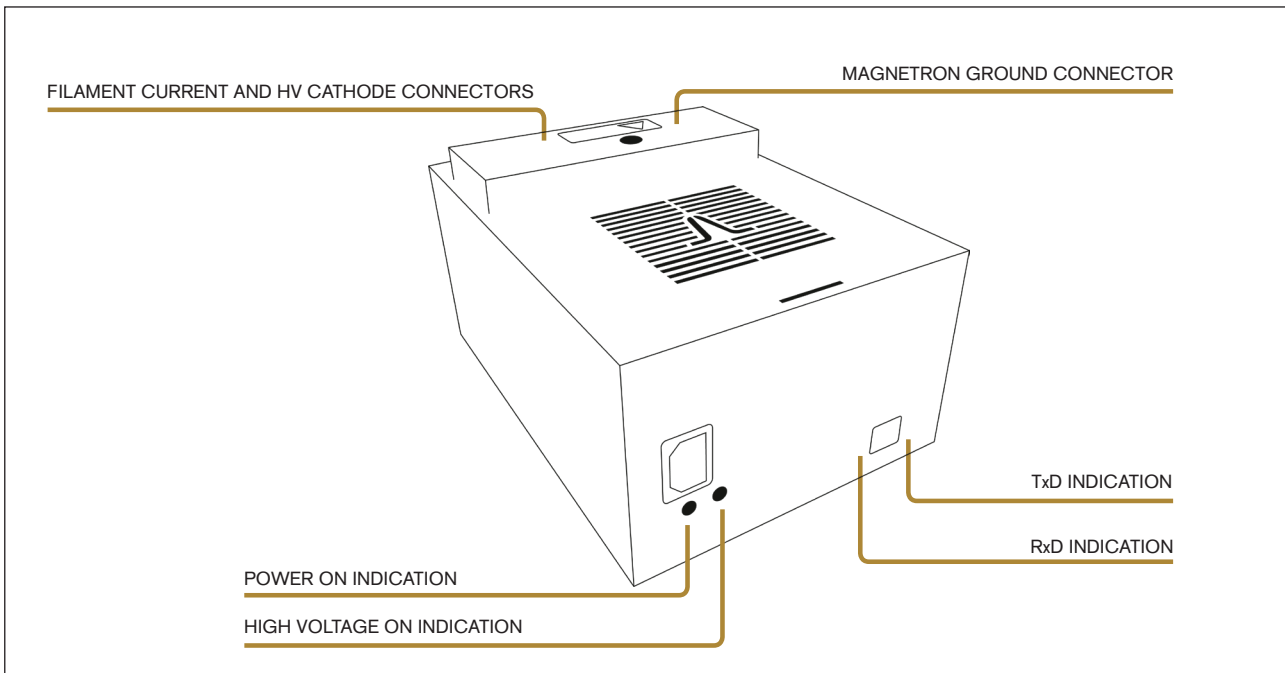
This new technology makes Magdrive1000 the perfect choice for industrial products, for industrial installations and for microwave laboratory work.

## GENERAL FEATURES

- Designed for 1kW 2450 MHz standard magnetron
- 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	APPROVALS AND ENVIRONMENT
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<b>INPUT DATA</b>	
Mains voltage	208-240VAC ±10%
Mains frequency	50-60 Hz
Power factor	>0.95 @ 230VAC / 100% power
<b>OUTPUT DATA</b>	
Anode power	100-1320W 1% steps. Regulated $P=U \cdot I$
Anode voltage	3.8-4.3 kV (Application dependant)
Filament current	4-10 A. Automatic reduction
Efficiency	>93% @ 100% power
<b>CONTROL</b>	
Communication	Optically isolated rs232
0-10DVC	Optional
Standalone	@VAC or @closing contact
Setpoints	Anode, filament, protection levels
Feedback	Anode W, anode current, filament current, alarms, temp, running hours

2014/35/EU LVD	Electrical Safety	SS-EN 61 010-1
Standard		
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	2.4 kg
Overall dimensions	Length 230 mm Width 165 mm Height 120 mm

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