

Bdiscom Srl Milan (I)

Your experienced partner
for Plasma power supplies

BDS-MF Generator



The newest and most price competitive
medium frequency generator
for any High/Low Voltage PECVD
and PVD process

BDS-MF 5/10kW @ 40kHz, High | Low Voltage AC plasma generator

The BDS-MF is a 40 kHz plasma generator with max power delivery of 5kW or 10 kW is specifically designed for plasma excitation on PECVD or plasma cleaning applications.

The unit is capable of delivery up to 10kW at 7000V RMS output. The output is balanced type, capable to drive 2 symmetrical electrodes. Typical application is PECVD process on large process chambers. A unique features is the high voltage matching transformer built in 2 (standard) or 3 (on request) transformer taps are available as impedance matching.

User only needs to connect two coaxial cables to the electrodes. Interface with the user's PLC can be both analog or digital RS232 or Profibus (upon request).

Highlights and benefits:

- Output matching transformer is built in. No external box is required.
- Air cooled unit. No risk associated with moisture or water leakage.
- Full power with ambient temperature up to 40°C.
- Analog interface.
- Profibus interface available upon request.
- Front panel display makes installation and trouble shooting easier.
- High efficiency >90%.
- Compact and lightweight construction, only 20kg, 4UI

BDS-MF specifications:

	BDS-MF5k	BDS-MF10k
Output Load	5 kWatt on 2000 Ohm load	10 kWatt on 2000 Ohm load
AC Supply	3 x 400 Vac +/- 10% 50 / 60 Hz, 10A (L1, L2, L3, PE)	3 x 400 Vac +/- 10% 50 / 60 Hz, 18 A (L1, L2, L3, PE)
Dimensions	19 inch rack style, 4UI height (177mm) 540mm depth	
Weight	20kg, hard robust aluminium case	
Cooling	Forced air, high efficiency heat sinks operate up to 40°C ambient temperature	
Output voltage	Up to 7000V on tap3 at 2000ohm load	
Output current	Up to 3,5 A on tap1, Up to 2,5 A on tap2	
Output Connection	Balanced 2 x Fischer 105 connectors for RG214/U coaxial cable	
Ignition voltage	Up to 7000 Vrms	
Arc detection	Based on primary overcurrent, 1 microsecond reaction time	
User interface	DB25 connector, analog signal 10V, digital 24V pinout. RS232 or Profibus (optional)	
Front panel	LCD display 2x40 characters highly readable	
Protection	Overcurrent, open load, arcs, mains under voltage, overtemperature	
Measurement	RMS voltage, RMS current, active power delivered	
Regulation	Power regulation mode	
HV transformer	Built in 2 taps 1000 Ohm, 2000 Ohm	

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