

Gencoa IM series specification

Specifications for Gencoa IM300 and IM3000 power supplies

The iM300 and iM3000 offer a complete solution for Gencoa IM type linear and circular plasma sources. All of the functions needed to operate the source are built-in.

The only user action is to connect the high voltage cable and the mass flow controller.

The necessary control sequence and power delivery is performed by the iM300 and iM3000 controller.

The units are equipped with a modern, IGBT based resonant converter and the overall operation is handled with a microcontroller subsystem.

The built-in software can drive external mass flow controller to maintain the source voltage at a preset value. The features of the iM300 and iM3000 ensure that the setup, operation and regulation of the plasma source is straightforward.



Specifications

Gencoa IM3000



Gencoa IM300



| | Gencoa IM3000 | Gencoa IM300 |
|------------------------------|---|---|
| Unit | rack 19" 4 HU | 1/2 rack 19" 3 HU |
| Main | 400 VAC 3 Ph | 240 or 110 VAC with switch selector inside |
| Voltage Strike | 3 kV positive | 3 kV positive |
| Nominal voltage | 2500 V/4 kW | 2500 V/500 W |
| Short circuit current | 2 Amps | 300 mA |
| Regulation mode | Current (5 mA resolution) | Current (0.5 mA resolution) |
| Output connector | FISHER HV female mod 105 | BNC SHV female |
| MFC | 2 channels analog 0/5 VDC | 2 channels analog 0/5 VDC |
| Display | Touch screen 240 x 128 pixel | Touch screen 240 x 128 pixel |
| Interlock/remote | 9 pin D type | 9 pin D type |
| RS 232 | 9 pin D type | 9 pin D type |
| Regulation mode | Internal constant gas flow, or gas feedback (constant voltage), via external RS 232 or analog user port | Internal constant gas flow, or gas feedback (constant voltage), via external RS 232 or analog user port |