This series of power supplies can generate AC voltage floating at high voltage and are generally   
used to heat the filament of the cathode of a gyratron tube. These power supplies are housed in

**REGULATED AC FLOATING POWER SUPPLY**

**10V to 100V AC, 50W to 5kW Floating On 10kV to 150kV**



compact cabinets with wheels for ease of operation.

**Features:**

* Soft Start
* Negligible Leakage Current
* Compact
* Well regulated
* OEM Customization Available

|  |  |
| --- | --- |
| **Technical Specifications** | |
| **PARAMETER** | SPECIFICATION |
| Input Voltage | 230V ±10% A C, 50Hz, Single Phase for output power ≤ 2kW  415V ±10% A C, 50Hz, three Phase for output power > 2kW |
| Output Voltage Range\* | 10V to 100V AC (variable), single phase, 50Hz, sine wave |
| Output Power Range\* | 50W to 5kW |
| DC Isolation\* | 10kV to 150kV DC |
| Output Waveform | Sine wave floating on high voltage DC isolation |
| Type of Primary Control | Linear (sine wave) |
| Line Regulation | 1% for 10% variation in input voltage |
| Load Regulation | ±1% for 0 to 100% load variation |
| Regulating Mode | Constant voltage or constant current selectable through a selector switch in front panel at ground level |
| Leakage Current Through Transformer Secondary to Ground & Primary | < 200µA |
| Rate of Rise of Floating AC Voltage\* | 1V/second to 1V/ minute |
| Current Sensing | Through load floating on DC isolation |
| Protections | Against over load, short-circuit and arc  During short circuit, power supply trips & to be manually reset to restart |
| Mode of Operation | Local or remote selectable through a selector switch in front panel at ground level |
| Front Panel | Power ON/OFF switch with indication  Push buttons for power supply start & stop Rotary push switch for emergency trip Push button for trip reset 3½ dig it rms voltage and rms current meters 10-turn potentiometer for voltage rise control 10-turn potentiometers for over voltage & over current trip level setting Selector switch for Local / Remote selection Selector switch for regulating mode selection Constant voltage – constant current mode indication |
| Back Panel | Socket for mains input with 250V, 20A 3 conductor power cord of 1.5 meters / terminal block for 3 phase input Fuse holder with fuse Pluggable connectors for remote control stud for grounding the unit |
| Remote Controls & Signals (all at ground level) | Power supply ON/OFF Reference 10V DC signal 0-10V DC for voltage rise control 0-10V DC FSD for rms voltage monitor 0-10VDC FSD for rms current monitor |
| Cabinet | MS cabinet with wheels, powder coated |

For any queries or customization requests contact us at [info@ionics.co.in](mailto:info@ionics.co.in)

For product line information visit us at [www.ionics.co.in](http://www.ionics.co.in)