

This series of power supplies generate AC voltage floating at high voltage and are generally used to heat the filament of the cathode of a gyatron tube, electron gun, etc.

Features:

- Soft Start
- Negligible Leakage Current
- OEM Customization Available



TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input Voltage	230V \pm 10% AC, 50Hz, single phase for output power \leq 2kW 415V \pm 10% AC, 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	\pm 1% for \pm 10% variation in input voltage
Load Regulation	\pm 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	$<$ 200 μ A
Rate of Rise of Floating AC Voltage*	1V/second to 1V/minute
Voltage Sensing	Across primary of the transformer at ground level
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	<ul style="list-style-type: none"> 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 digit 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	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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	19" rack, powder coated

*Optional. To be specified by the user.

For any queries or customization requests contact us at info@ionics.co.in

For product line information visit us at www.ionics.co.in