

This series of power supplies are designed with special protections from back EMF that occurs during the capacitor discharging process, RF frequencies during sparks, short circuits due to faulty capacitor during capacitor testing.

Features:

- Precision Regulated
- High Stability
- Back EMF protected
- 19" Rack Mountable
- OEM Customization Available



TECHNICAL SPECIFICATIONS

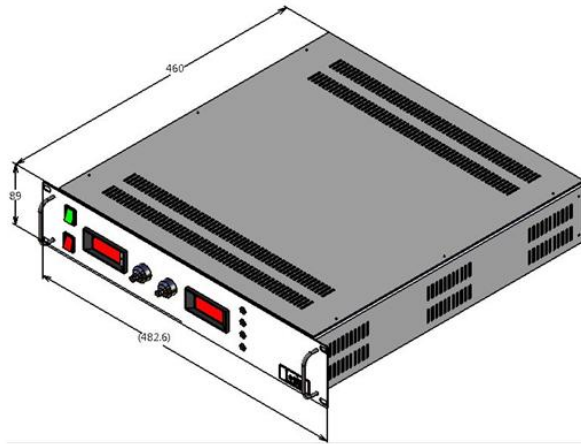
PARAMETER	SPECIFICATION
Input Voltage	230V ±10% AC, 50Hz, single phase / 415V ±10% AC, 50Hz, three phase
Output Voltage Range*	1kV DC to 150kV DC
Output Power Range*	50W to 30kW
Polarity*	Positive / Negative
Line Regulation	Upto 0.05% for ±10% variation in input voltage
Load Regulation	Upto 0.1% for 0 to 100% load variation
Stability	< 0.01%/hour after 1 hour warm up
Regulating Mode*	Constant voltage – constant current
Voltage & Current Control*	Local: By 10-turn potentiometers on the front panel Remote : 0 to 10VDC signals for voltage & current control
Protections	Against over load, short-circuit, arc and back EMF During short circuit power supply enters into constant current mode.
Remote Controls & Signals	10VDC Reference 10VDC signal for HV enable 0 to 10V DC signals for voltage & current control 0 to 10V DC signals for voltage & current monitoring Potential free contact for “HV ON” signal Potential free contact for “charging complete” signal
Front Panel	Power ON/OFF switch / MCB with indication HV ON/OFF switch with indication 3½ digit voltage and current meters 10-turn potentiometers for voltage and current control Constant voltage – constant current mode indication Charging complete indication
Back Panel	Socket for mains input with 250V, 10A/20A 3 conductor power cord of 1.5 meters / Terminal block for 3 phase input Fuse holder with fuse Terminal for HV output with 10ft of detachable high voltage cable 24 pin pluggable connector for remote operation

	Stud for grounding the unit
Topology	High frequency resonant / PWM-controlled switch mode
Switching Device	IGBT
Cabinet	19" rack, powder coated, 2U to 8U depending on power rating

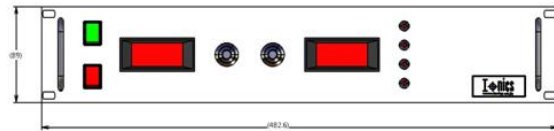
*Optional. To be specified by the user.

Remote Interface Connector Configuration	
Pins	24 Pin Pluggable Connector
1	Earth
2	Common
3	HV Enable
4	10V DC Reference
5	Common
6	Voltage Control Remote
7	Voltage Control Local
8	Common
9	Current Control Remote
10	Current Control Local
11	Common
12	Voltage Monitor
13	Current Monitor
14	Common
15	HV ON Signaling PFC - NO
16	HV ON Signaling PFC - Pole
17	HV ON Signaling PFC - NC
18	Charge Complete Signaling PFC - NO
19	Charge Complete Signaling PFC - Pole
20	Charge Complete Signaling PFC - NC
21	Reserved
22	Reserved
23	Reserved
24	Reserved
PFC – Potential Free Contact	

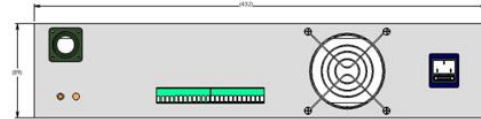
Cabinet Details:



Front Panel



Back Panel



Ordering Code	HV	020	K	1.5	K	P	C	I	D	5	L
		1		2	3	4		5		6	
Section	Description		Options		Options Description						
1	Output Voltage		XXX		Value of output kilovolts						
2	Output Power		YYY		Value of output power						
3	Output Power Range		W		Watt						
			K		Kilo watt						
4	Polarity		P		Positive						
			N		Negative						
5	Input Voltage		I		230V AC (If YYY ≤ 2 kilowatt)						
			J		415V AC (If YYY > 2 kilowatt)						
6	Regulating Mode		4		Constant voltage						
			5		Constant voltage & constant current						

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

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