

This series of power supplies can generate output that ranges from 2kV to 100kV, 3kW to 5kW and are housed in compact 19" racks to give a highly regulated output.

Features:

- Precision Regulated
- Low Ripple
- High Stability
- 19" Rack Mountable
- OEM Customization Available



TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input Voltage	415V \pm 10% AC, 50Hz, three phase
Output Voltage Range*	2kV DC to 100kV DC
Output Power Range*	3kW to 5kW
Polarity*	Positive
Line Regulation	Better than 0.1% for \pm 10% variation in input voltage
Load Regulation	Better than 0.1% for 0 to 100% load variation
Ripple	0.1% rms at full rating
Stability	Better than 0.01%/hour after 1 hour warm up
Regulation Mode*	Constant voltage – Constant current
Voltage & Current Control*	Local : By 10-turn potentiometers on the front panel Remote : 0 to 10V DC signals for voltage & current control; OR Control through computer interface
Protections*	Against over load, over current, over voltage, over temperature, phase failure, short-circuit and arc
Remote Controls & Signals through Pluggable Connector / D-Connector (External RS232 Microcontroller Module)*	10V DC reference 10V DC HV enable signal 0 to 10V DC signal for voltage & current control 0 to 10V DC signal for voltage & current monitoring
Front Panel	Three phase indicators AC Power ON/OFF MCB 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 LEDs for fault indications
Back Panel	Terminal block for 3 phase input Fuse holder(s) with fuse Terminal for HV output with 10ft of detachable high voltage cable Stud for grounding the unit Remote interface connector*

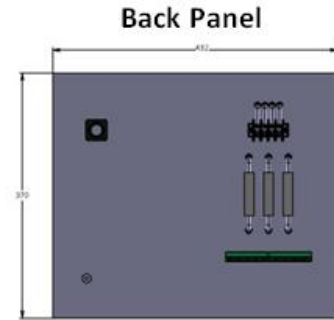
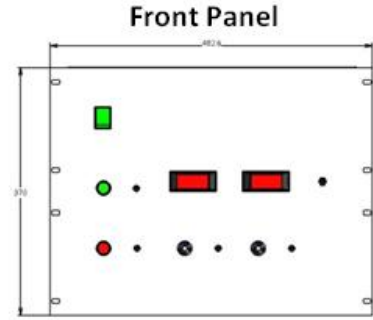
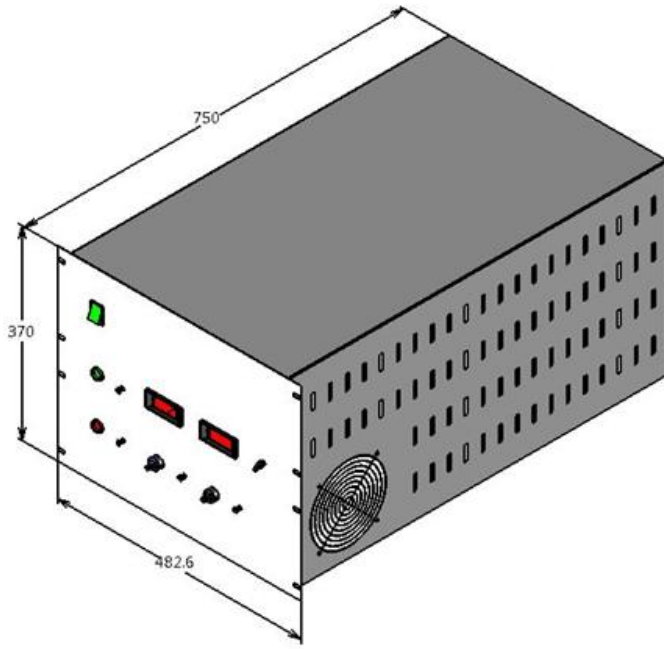
Topology	High frequency resonant / PWM-controlled switch mode
Switching Device	IGBT
Cabinet	4U to 8U 19" rack, powder coated

*Optional. To be specified by the user.

Remote Interface Connector Configuration		
Pins	28 Pin Pluggable Connector	25 Pin D Connector
1	Earth	Earth
2	Common	Common
3	Interlock	HV Enable
4	HV Enable	Voltage Control Remote
5	Reference	Current Control Remote
6	Common	Over Voltage Control Remote*
7	Voltage Control Remote	Over Current Control Remote*
8	Voltage Control Local	Common
9	Common	Voltage Monitor
10	Current Control Remote	Current Monitor
11	Current Control Local	Reserved Monitor*
12	Common	Reserved Monitor*
13	Voltage Monitor	Common
14	Current Monitor	Mode Status
15	Common*	Interlock Status
16	Voltage Mode Status*	HV ON Status
17	Current Mode Status*	Common
18	HV ON Status*	PS Fault Status*
19	Common*	Over Voltage Status*
20	PS Fault Status*	Over Current Status*
21	Over Voltage Status*	Over Temperature Status*
22	Over Current Status*	Open Circuit Status*
23	Over Temperature Status*	Phase Failure Status*
24	Open Circuit Status*	Reserved Status*
25	Phase Failure Status*	Common
26	Common*	
27	Over Voltage Control*	
28	Over Current Control*	

*Optional. To be specified by the user only as per application's requirement.

Cabinet Details:



Ordering Code	<u>HV</u>	<u>020</u>	<u>K</u>	<u>3</u>	<u>K</u>	<u>N</u>	<u>C</u>	<u>J</u>	<u>A</u>	<u>5</u>	<u>T</u>
		1		2		3			4	5	6
Section	Description			Options		Options Description					
1	Output Voltage			XXX		Value of output voltage					
2	Output Power			Y		Value of output power					
3	Polarity			P		Positive					
				N		Negative					
4	Short Circuit			A		Shut down					
				B		Shut down & manual reset					
				C		Shut down & automatic restart					
				D		Constant current					
5	Regulation Mode			4		Constant voltage					
				5		Constant voltage & constant current					
6	Control Mode			L		Local control					
				R		Remote control through D-connector					
				T		Remote control through pluggable connector					

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

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