

This series of power supplies can generate output that ranges from 1kV to 150kV, 50W to 600W 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

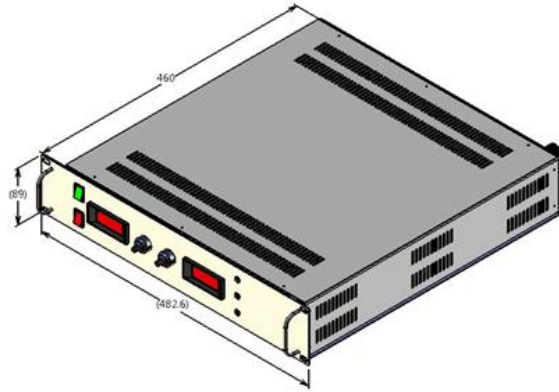


TECHNICAL SPECIFICATIONS

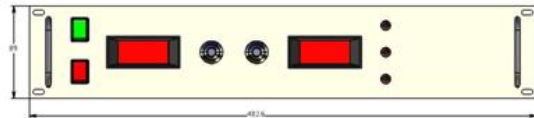
PARAMETER	SPECIFICATION
Input Voltage	230V \pm 10% AC, 50Hz, single phase
Output Voltage Range*	1kV DC to 150kV DC
Output Power Range*	50W to 600W
Polarity*	Positive
Line Regulation	Better than 0.05% for \pm 10% variation in input voltage
Load Regulation	Better than 0.05% for 0 to 100% load variation
Ripple	0.05% rms OR 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, 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	AC Power ON/OFF switch 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
Back Panel	Socket for mains input with 250V, 10A 3 conductor power cord of 1.5 meters Fuse holder 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	2U to 5U 19" rack, powder coated

*Optional. To be specified by the user.

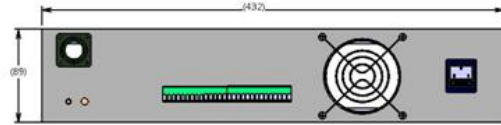
Cabinet Details:



Front Plate



Back Plate



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.

Ordering Code	<u>HV</u>	<u>040</u>	<u>K</u>	<u>600</u>	<u>W</u>	<u>N</u>	<u>C</u>	<u>I</u>	<u>D</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		YYY	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