REGULATED HIGH VOLTAGE DC POWER SUPPLY

1kV to 150kV, 50W to 1kW

This series of power supplies can generate output that ranges from 1kV to 150kV, 50W to 1kW 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 ±10% A C, 50Hz, single phase
Output Voltage Range*	1kV DC to 150kV DC
Output Power Range*	50W to 1kW
Polarity*	Positive
Line Regulation	≤ 0.05% for 10% variation in input voltage
Load Regulation	≤0.1% for 0 to 100% load variation
Ripple	≤0.1% rms at full rating
Stability	Better than 0.05%/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 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/3U, 19” rack, powder coated

*Optional. To be specified by the user.
#RS232 interface available at an extra cost.

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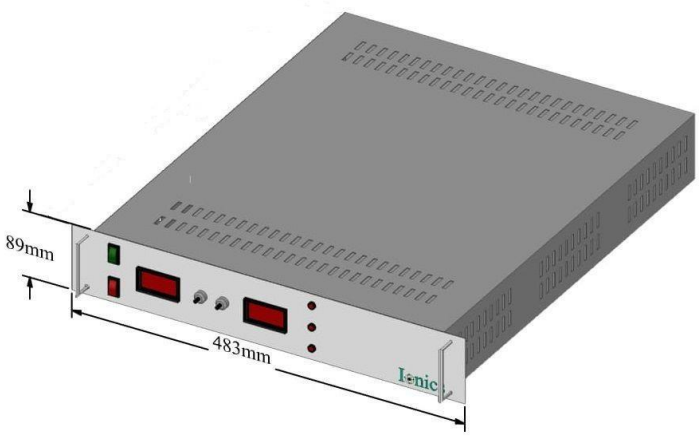
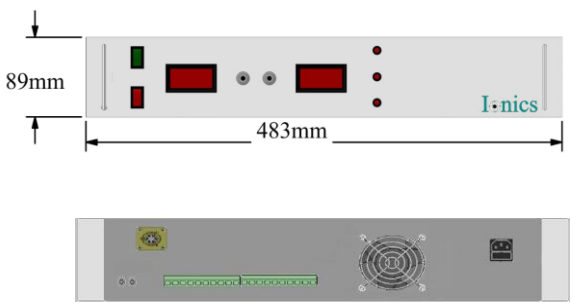
Remote Interface Connector Configuration		
	Analog Interface	Digital Interface
Pins	28 Pin Pluggable Connector	25 Pin D Connector
1	Earth	Earth
2	Common	Common
3	Interlock	HV Enable
4	HV Enable	Voltage Control Remote
5	Reference	Current Control Remote
6	Common	Over Voltage Control Remote*
7	Voltage Control 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*	

Ordering Code	HV	150	K	001	K	P	C	I	A	R
		1		2	3	4	5	6	7	8
Section	Description	Options	Options Description							
1	Output Voltage	XXX	Value of output voltage							
2	Output Power	Y	Value of output power							
3	Output Power Range	W	Watts							
		K	Kilo Watts							
4	Polarity	P	Positive							
		N	Negative							
		D	Dual							
		B	Bipolar							
		R	Reversible							
5	Mode	P	Pulsed							
		C	Continuous							
		F	Fixed							
		S	Sine							
		T	Square							
6	Input Voltage	2	24V DC							
		I	230V							
		J	415V							
7	Short Circuit	A	Shut down							
		B	Shut down & manual reset							
		C	Shut down & automatic restart							
		D	Constant current							
8	Controls	R	Remote							
		L	Local							

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





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