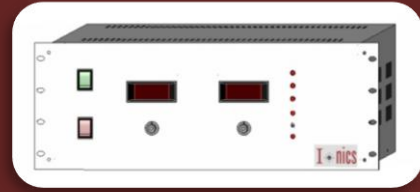


This series of power supplies will have both polarities but either one can be operated at one time.

Features:

- Selectable Polarity
- Precision Regulated
- High Stability
- 19" Rack Mountable
- OEM Customization Available

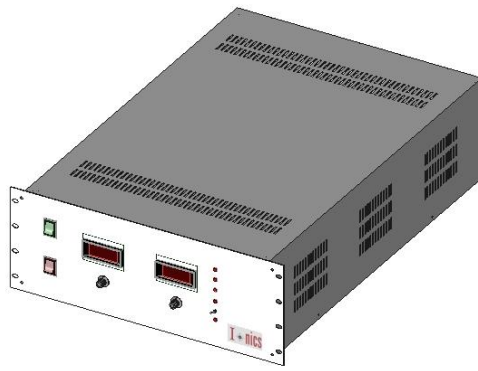


TECHNICAL SPECIFICATIONS

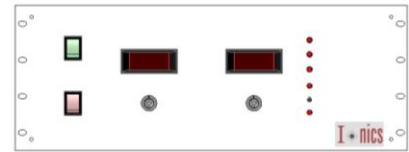
PARAMETER	SPECIFICATION
Input Voltage	230V ±10% AC, 50Hz, single phase / 415V ±10% AC, 50Hz, three phase
Output Voltage Range*	1kV DC to 150kV DC
Output Power Range*	50W to 30kW
Number of Outputs	1
Polarity	Reversible. Positive or negative selection is by a switch on front panel upto 50kV models and simply reversing multiplier / rectifier stack above 50kV
Line Regulation	Upto 0.05% for ±10% variation in input voltage
Load Regulation	Upto 0.05% for 0 to 100% load variation
Ripple	Upto 0.1% rms
Stability	< 0.01%/hour after 1 hour warm up
Regulating Mode*	Constant voltage – Constant current
Voltage & Current Control	By 10-turn potentiometers on the front panel
Protections*	Against over load, short-circuit and arc
Front Panel	Power ON/OFF switch / MCB with indication HV ON/OFF switch with indication Polarity 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/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 Stud for grounding the unit
Topology	High frequency resonant / PWM-controlled switch mode
Switching Device	IGBT
Cabinet	<ul style="list-style-type: none"> • 1kV to 30kV • 35kV to 150kV • 19" rack, powder coated, 3U to 8U depending on power rating • 19" rack, powder coated, 3U to 8U depending on power rating followed by a separate multiplier cabinet

*Optional. To be specified by the user.

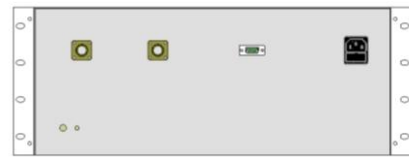
Cabinet Details:



Isometric View



Front Panel



Back Panel

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>200</u>	<u>K</u>	<u>010</u>	<u>K</u>	<u>N</u>	<u>C</u>	<u>J</u>	<u>A</u>	<u>5</u>	<u>R</u>
	1	2	3	4	5	6	7	8	9	10	11
Section	Description			Options	Options Description						
1	Type of Power Supply			HV	High Voltage						
				HC	High Current						
				MR	Miniature Module with Remote Control						
				ML	Miniature Module with Local Control						
				MF	Miniature Module with Front Panel Control						
2	Output Voltage			XXX	Value of Output Voltage						
3	Output Voltage Range			V	Volt						
				K	Kilo Volt						
4	Output Power			YYY	Value of Output Power						
5	Output Power Range			W	Watt						
				K	Kilo Watt						
6	Polarity			P	Positive						
				N	Negative						
				D	Dual						
				B	Bipolar						
				R	Reversible						
7	Mode			P	Pulsed						
				C	Continuous						
				F	Fixed						
				S	Sine						
				Q	Square						
8	Input Voltage			1	12V DC						
				2	24V DC						
				3	72V DC						
				I	230V AC						
				J	415V AC						
				U	115/230V AC						
9	Short Circuit			A	Shut Down						
				B	Shut Down & Manual Reset						
				C	Shut Down & Automatic Restart						
				D	Constant Current						
10	Operation Mode			4	Constant Voltage / Constant Current (HV/HC)						
				5	Constant Voltage & Constant Current						
11	Control			L	Local Control						
				R	Remote Control through D-Connector (RS-232)						
				T	Remote Control through Pluggable Connector						
				S	Remote Control through Terminal Block						

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

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