

This series of power supplies can generate output that ranges from negative to positive polarities or vice versa through zero crossing via a single potentiometer. They are housed in compact 19" racks to give a highly regulated output.

**Features:**

- ❖ Negative to positive polarity through zero crossing
- ❖ Precision Regulated
- ❖ High Stability
- ❖ 19" Rack Mountable
- ❖ OEM Customization Available


**TECHNICAL SPECIFICATIONS**

PARAMETER	SPECIFICATION
<b>Input Voltage</b>	230V ±10% AC, 50Hz, single phase
<b>Output Voltage Range*</b>	1kV DC to 5kV DC
<b>Output Power Range*</b>	50W to 300W
<b>Number of Outputs</b>	1
<b>Polarity*</b>	Bipolar. Negative to positive or vice versa , automatically variable through zero by a potentiometer
<b>Line Regulation</b>	≤ 0.05% for ± 10% variation in input voltage
<b>Load Regulation</b>	≤ 0.1% for 0 to 100% load variation
<b>Ripple</b>	≤0.1% rms at full rating
<b>Stability</b>	< 0.1%/hour after 1 hour warm up
<b>Regulation Mode*</b>	Constant voltage
<b>Voltage Control*</b>	By 10-turn potentiometers on the front panel
<b>Protections*</b>	Against over load, short-circuit and arc During faults, power supply trips and to be reset manually
<b>Remote Interface (Analog) through Pluggable Connector</b>	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
<b>Optional. Remote Interface (Digital) through D-Connector (External Ethernet/RS232 Microcontroller Module) #</b>	HV ON/OFF Voltage & current setting Voltage & current monitor
<b>Front Panel</b>	Power ON/OFF switch with indication HV ON/OFF switch with indication 3½ digit voltage and current meters 10-turn potentiometers for voltage and control Polarity indication LED indication for trip Push button to restart the power supply in case of trip

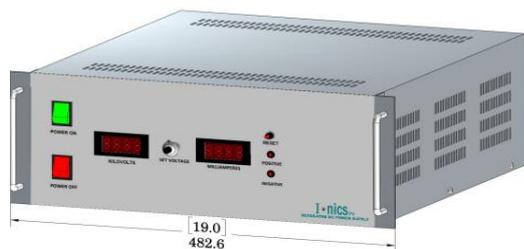
<b>Back Panel</b>	Socket for mains input with 250V, 10A 3 conductor power cord of 1.5 meters Fuse holder with fuse Terminal for HV output with 10ft of detachable high voltage cable Stud for grounding the unit
<b>Topology</b>	High frequency resonant / PWM-controlled switch mode
<b>Switching Device</b>	IGBT/MOSFET
<b>Cabinet</b>	19" rack, 2U/3U. powder coated

\*To be specified

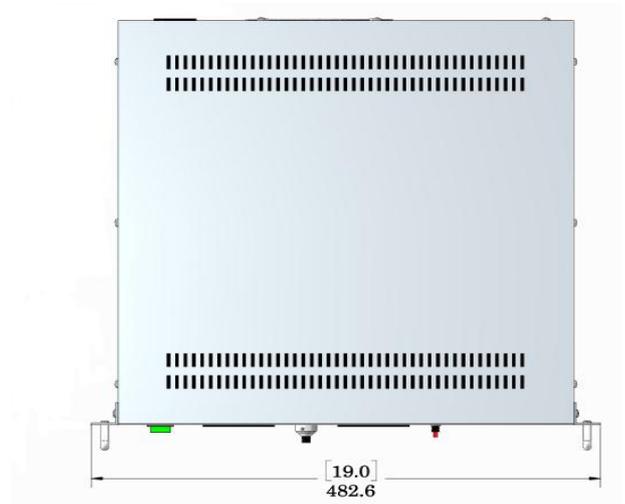
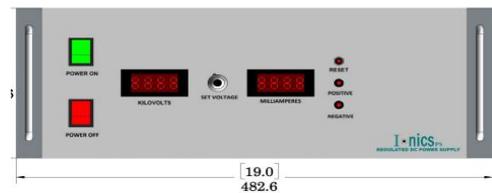
#Digital interface available at an extra cost

Remote Interface Connector Configuration		
	Analog Interface (14 Pin Pluggable Connector)	Digital Interface (25 Pin D Connector)
<b>Pins</b>		
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		Interlock Status
16		HV ON Status
17		Common
18		PS Fault Status*
19		Over Voltage Status*
20		Over Current Status*
21		Over Temperature Status*
22		Open Circuit Status*
23		Phase Failure Status*
24		Reserved Status*
25		Common

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



Ordering Code	HV	5	K	250	W	B	C	I	B	4	L
	1	2							3		
<b>Section</b>	<b>Description</b>		<b>Options</b>				<b>Options Description</b>				
1	Output Voltage		XXX				Value of output kilovolts				
2	Output Power		YYY				Value of output power				
3	Short Circuit		A				Shut down				
			B				Shut down & manual reset				
			C				Shut down & automatic restart				
			D				Constant current				



For any queries or customization requests contact us at [info@ionics.co.in](mailto:info@ionics.co.in)  
For product line information visit us at [www.ionics.co.in](http://www.ionics.co.in)