

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.

### Features:

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

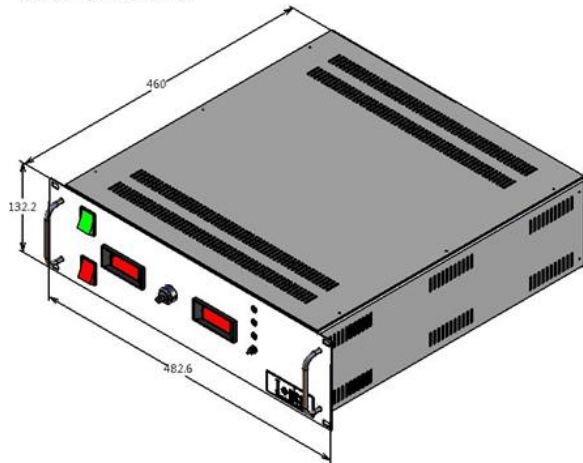


### TECHNICAL SPECIFICATIONS

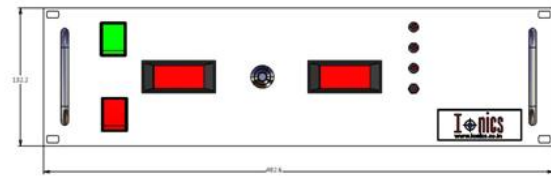
PARAMETER	SPECIFICATION
Input Voltage	230V $\pm$ 10% AC, 50Hz, single phase
Output Voltage Range*	1kV DC to 5kV DC
Output Power Range*	50W to 300W
Number of Outputs	1
Polarity*	Bipolar. Negative to positive or vice versa, automatically variable through zero by a potentiometer
Line Regulation	< 0.05% for $\pm$ 10% variation in input voltage
Load Regulation	< 0.05% for 0 to 100% load variation
Ripple	$\leq$ 0.5% rms
Stability	< 0.01%/hour after 1 hour warm up
Regulating Mode	Constant voltage
Voltage Control	By 10-turn potentiometer on the front panel
Protections*	Against over load, short-circuit and arc During faults, power supply trips and to be reset manually
Front Panel	Power ON/OFF switch with indication HV ON/OFF switch with indication 3½ digit voltage and current meters 10-turn potentiometer for voltage control Polarity indication LED indication for trip Push button to restart the power supply in case of trip
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
Topology	High frequency resonant / PWM-controlled switch mode
Switching Device	IGBT
Cabinet	3U 19" rack, powder coated

\*Optional. To be specified by the user.

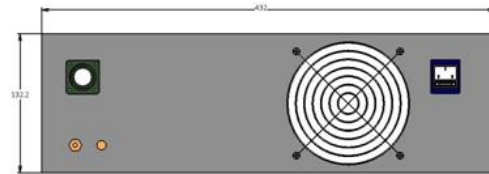
**Cabinet Details:**



**Front Panel**



**Back Panel**



Ordering Code	<u>H</u> V	<u>5</u>	<u>K</u>	<u>2</u> 50	<u>W</u>	<u>B</u>	<u>C</u>	<u>I</u>	<u>B</u>	<u>4</u>	<u>L</u>
		1		2					3		
Section	Description		Options	Options Description							
1	Output Voltage		X	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)