

This series of power supplies are designed for continuous use in a vacuum environment and are mainly used as DC magnetron sputtering drives. High regulation, low stored energy and efficient arc sustaining make these units ideal for laboratory and industrial use.

Features:

- Regulated
- Efficient Arc Sustaining
- 19" Rack Mountable
- OEM Customization Available

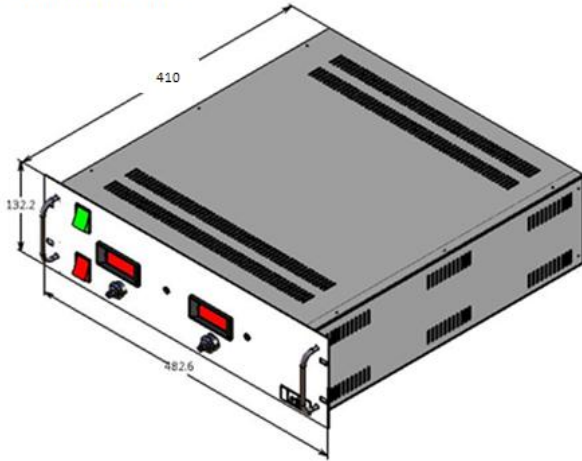


TECHNICAL SPECIFICATIONS

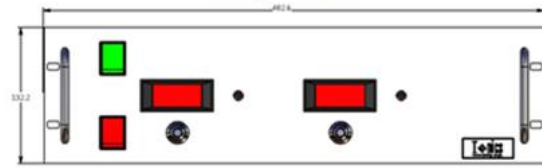
PARAMETER	SPECIFICATION
Input Voltage	230V ±10% AC, 50Hz, single phase / 415V ±10% AC, 50Hz, three phase
Output Voltage	1kV DC
Output Power Range*	1kW to 5kW
Polarity*	Positive / Negative
Line Regulation	Upto 0.05% for ±10% variation in input voltage
Load Regulation	Upto 0.1% for 0 to 100% load variation
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, arc and short-circuit
Front Panel	Power ON/OFF switch / MCB 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, 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	19" rack, powder coated, 3U to 8U depending on power rating

*Optional. To be specified by the user.

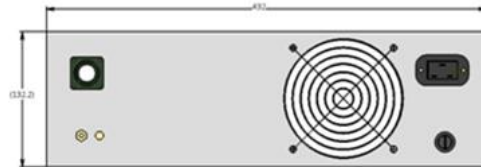
Cabinet Details:



Front Panel



Back Panel



Ordering Code	HV	1	K	1	K	P	C	I	D	5	L
				1		2		3	4	5	
Section	Description		Options		Options Description						
1	Output Power		Y		Value of output power in kilowatt						
2	Polarity		P		Positive						
			N		Negative						
3	Input Voltage		I		230V AC (If Y ≤ 2 kilowatt)						
			J		415V AC (If Y > 2 kilowatt)						
4	Short Circuit		A		Shut down						
			B		Shut down & manual reset						
			C		Shut down & automatic restart						
			D		Constant current						
5	Regulating Mode		4		Constant voltage						
			5		Constant voltage & constant current						

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

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