

This series of power supplies can generate output that ranges from 1kV to 150kV, 2.2W to 6kW 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	415V \pm 10% AC, 50Hz, three phase
Output Voltage Range*	1kV to 150kV DC
Output Power Range*	2.2kW to 6kW
Polarity*	Positive
Line Regulation	\leq 0.05% for \pm 10% variation in input voltage
Load Regulation	\leq 0.1% for 0 to 100% load variation
Ripple	\leq 0.1% rms at full rating
Stability	< 0.05/hour after 1 hour warm up
Temperature Coefficient	< 0.05% / $^{\circ}$ C
Regulating Mode	Constant current - Constant voltage
Cooling	Forced air cooling
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 phase failure, over voltage, over load, short circuit and arc
Remote Interface (Analog) through Pluggable Connector	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
Optional. Remote Interface (Digital) through D-Connector (External Ethernet/RS232 Microcontroller Module) #	HV ON/OFF Voltage & current setting Voltage & current monitor
Front Panel	Power ON/OFF MCB with indication HV ON/OFF switch with indication 3½ digit current and voltage meters 10-turn potentiometers for current and voltage control Constant current – constant voltage mode indication
Back Panel	Terminal block for 3 phase input Fuse holders with fuses 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	For $\leq 100\text{kV}$ 19" rack, 3U/4U powder coated For $\geq 100\text{kV}$ control & HT section separate

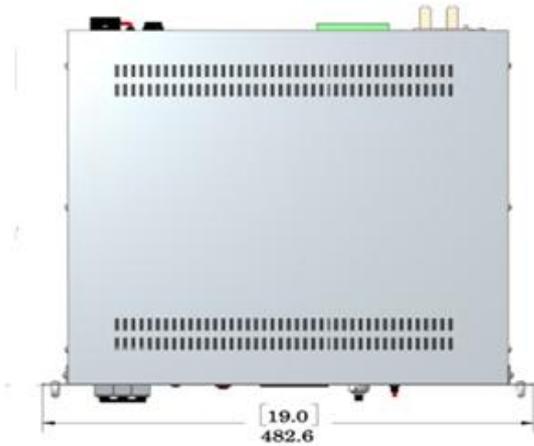
*To be specified by the customer

#For remote operation digital interface available at an extra cost

Remote Interface Connector Configuration		
Pins	14 Pin Pluggable Connector (Analog Interface)	25 Pin D Connector (Digital Interface)
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	040	K	600	W	N	B	Y	A
	1						2	3	4
Section	Description		Options		Options Description				
1	Output Voltage		XXX		Value of output voltage				
	Output Power		YYY		Value of output power				
	Polarity		P		Positive				
			N		Negative				
	Control Mode		Default		Local control				
	Input Voltage		Default		230V AC, 1 phase, 50Hz				
Additional Features (Optional)									
2	Short Circuit		A		Shut down & manual reset				
			B		Shut down & automatic restart				
			C		Constant current mode				
3	Input Voltage		Y		415V AC, 3 phase, 50Hz				
			Z		24V DC				
4	Remote Interface		A		Analog				
			D		Digital				



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

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