

This series of power supplies can generate output that ranges from 1kV to 150kV, 10kW to 20kW and are housed in compact MS cabinets to give a highly regulated output.

Features:

- ❖ Highly Regulated
- ❖ Low Ripple
- ❖ High Stability
- ❖ Analog & Digital Interface
- ❖ OEM Customization Available


TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input Voltage	415V \pm 10% A C, 50Hz, three phase
Output Voltage Range*	1kV DC to 150kV DC
Output Power Range*	10kW to 20kW
Polarity*	Positive / Negative
Line Regulation	\leq 0.1% for 10% variation in input voltage
Load Regulation	\leq 0.5% for 0 to 100% load variation
Ripple	\leq 0.5% rms at full rating
Stability	\leq 0.1%/hour after 1 hour warm up
Temperature Coefficient	< 0.1%/ $^{\circ}$ C
Regulation Mode*	Constant voltage – Constant current
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 load, over voltage, over temperature, 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	Three phase indicators AC Power ON/OFF MCB 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 LEDs for fault indications
Back Panel	Terminal block for 3 phase input Fuse holder(s) with fuse 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	MS cabinet, powder coated

*To be specified by the user.

#**Optional.** Digital Interface available at an extra cost

Remote Interface Connector Configuration		
	Analog Interface (14 Pin Pluggable Connector)	Digital Interface (25 Pin D Connector)
Pins		
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

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				



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



For any queries or customization requests contact us at info@ionics.co.in
For product line information visit us at www.ionics.co.in