

This series of power supplies will have both polarities but either one can be operated at one time. They are housed in compact 19” racks to give a highly regulated output.

Features:

- ❖ Selectable Polarity
- ❖ Precision Regulated
- ❖ High Stability
- ❖ 19” Rack Mountable
- ❖ OEM Customization Available



TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input Voltage	230V ±10% A C, 50Hz, single phase / 415V ±10% AC, 50Hz, three phase
Output Voltage Range*	1kV DC to 150kV DC
Output Power Range*	50W to 30kW
Number of outputs	1
Polarity*	Reversible Positive or Negative selection is by a switch on front panel upto 50kV models and simply reversing multiplier / rectifier stack above 50kV
Line Regulation	Upto 0.05% for ±10% variation in input voltage
Load Regulation	Upto 0.1% for 0 to 100% load variation
Ripple	Upto 0.1% rms
Stability	<0.05%/hour after 1 hour warm up
Temperature Coefficient	< 0.05% / °C
Regulation Mode*	Constant voltage – Constant current
Voltage & Current Control*	By 10-turn potentiometers on the front panel
Protections*	Against 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 switch / MCB with indication HV ON/OFF switch with indication Polarity 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, 10A/20A 3 conductor power cord of 1.5 meters / Terminal block in case of three phase 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
Cabinet For Output Voltage ≤100kV For Output Voltage >100kV	<ul style="list-style-type: none"> • 19" rack, powder coated, 3U to 4U depending on power rating • Control section and HV multiplier separate

*Optional. To be specified by the user.

#Optional. Digital interface available at an extra cost

Remote Interface Connector Configuration

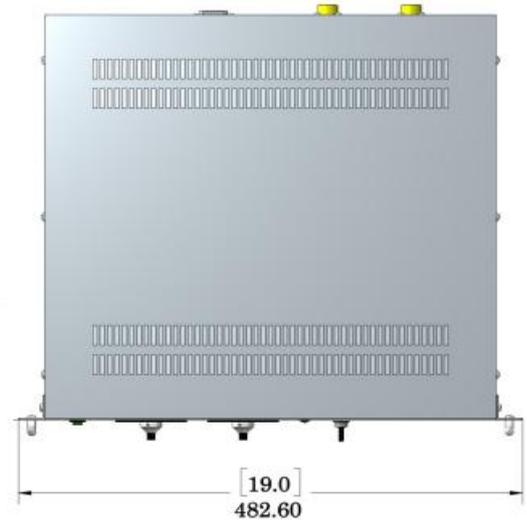
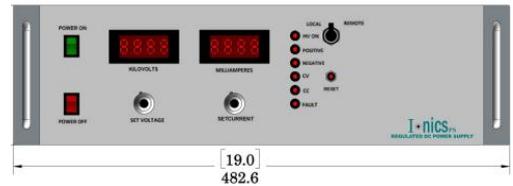
Pins	Analog Interface (14 Pin Pluggable Connector)	Digital Interface (25 Pin D Connector)
	1	Earth
2	Common	Common
3	Interlock	HV Enable
4	HV Enable	Voltage Control Remote
5	Reference	Current Control Remote
6	Common	Over Voltage Control Remote*
7	Voltage Control Remote	Over Current Control Remote*
8	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