

This series of power supplies incorporate the high frequency switch mode technology to give precision regulated & highly stable units with current range up to 600A catering to a wide variety of scientific and industrial applications.

Features:

- ❖ Precision Regulated
- ❖ High Stability
- ❖ 19" Rack Mountable
- ❖ OEM Customization Available


TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Input Voltage	415V \pm 10% AC, 50Hz, three phase
Output Current Range*	100A to 600A
Output Power Range*	8kW to 15kW
Current Sensing	By highly stable DCCT
Polarity*	Floating
Current Regulation Line	\leq 0.1% for \pm 10% variation in input voltage
Current Regulation Load	\leq 0.5% for 0 to 100% load variation
Ripple	\leq 0.5% rms
Stability	<0.01%/hour after 1 hour warm up
Regulating Mode*	Constant current - Constant voltage
Cooling	Forced air cooling
Current & Voltage 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 over voltage, over load and over temperature During faults, power supply trips and to be reset manually
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 HC ON/OFF switch with indication 3½ dig it LED / 4½ dig it LCD current and voltage meters* 10-turn potentiometers for current and voltage control Constant current – constant voltage mode indication Fault indications Push button for trip reset

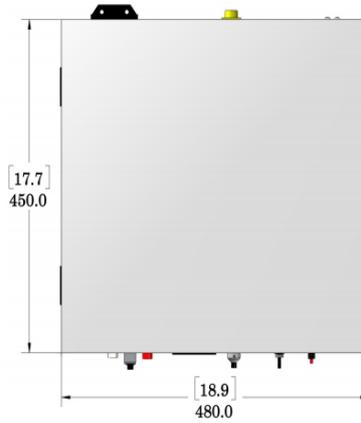
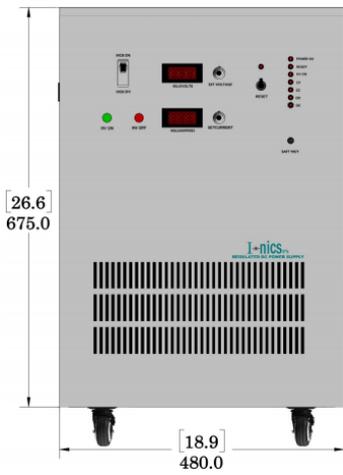
Back Panel	Socket for mains input with 250V, 10A/20A 3 conductor power cord of 1.5 meters / Terminal block for 3 phase input Fuse holder with fuse Terminal for HC output with bus bars depending on power rating Remote interface connector* Stud for grounding the unit
Topology	High frequency resonant / PWM-controlled switch mode
Switching Device	IGBT
Cabinet	MS Cabinet on castor wheels, powder coated

*Optional. To be specified by the user.

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	10 V DC 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	HC	040	K	600	W	N	B	Y	A
	1			2	3	4			
Section	Description	Options	Options Description						
1	Output Current	XXX	Value of output current						
	Output Power	YYY	Value of output power						
	Polarity	P	Positive						
		N	Negative						
	Control Mode	Default	Local control						
Input Voltage	Default	415V AC, 3 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	230V AC, 1 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
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