

This series of power supplies incorporate the high frequency switch mode technology to give precision regulated & highly stable rack mountable units with current range up to 100A 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
<b>Input Voltage</b>		230V $\pm$ 10% AC, 50Hz, single phase
<b>Output Current Range</b>		10A to 100A
<b>Output Power Range</b>		500W to 2kW
<b>Current Sensing</b>		By highly stable DCCT
<b>Polarity</b>		Positive
<b>Current Regulation</b>	Line	$\leq$ 0.05% for $\pm$ 10% variation
	Load	$\leq$ 0.1% for no load to full load variation
<b>Ripple</b>		< 0.1% rms at full load
<b>Stability</b>		< 0.05%/hour after 1 hour warm up
<b>Temperature Coefficient</b>		< 0.05%/ $^{\circ}$ C
<b>Regulating Mode</b>		Constant current - Constant voltage
<b>Cooling</b>		Forced air cooling
<b>Current &amp; Voltage Control (0 to full rated current / voltage)</b>		Local: By 10-turn potentiometers on the front panel Remote: 0 to 10V DC signals for voltage & current control; OR Control through computer interface
<b>Protections</b>		Against over current, over voltage, short-circuit and arc
<b>Remote Interface (Analog) through Pluggable Connector</b>		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
<b>Optional. Remote Interface (Digital) through D-Connector (External Ethernet/RS232 Microcontroller Module) #</b>		HV ON/OFF Voltage & current setting Voltage & current monitor
<b>Front Panel</b>		Power ON/OFF switch with indication Output ON/OFF switch with indication 3½ digit LED current and voltage meters (4½ digit available on request) 10-turn potentiometers for current and voltage control Constant current – constant voltage mode indication Fault indications Push button for trip reset

<b>Back Panel</b>	Socket for mains input with 250V, 10A/20A 3 conductor power cord of 1.5 meters Terminal for HC output with bus bars depending on power rating Stud for grounding the unit
<b>Topology</b>	PWM-controlled switch mode
<b>Switching Device</b>	IGBT
<b>Cabinet</b>	19" rack, powder coated

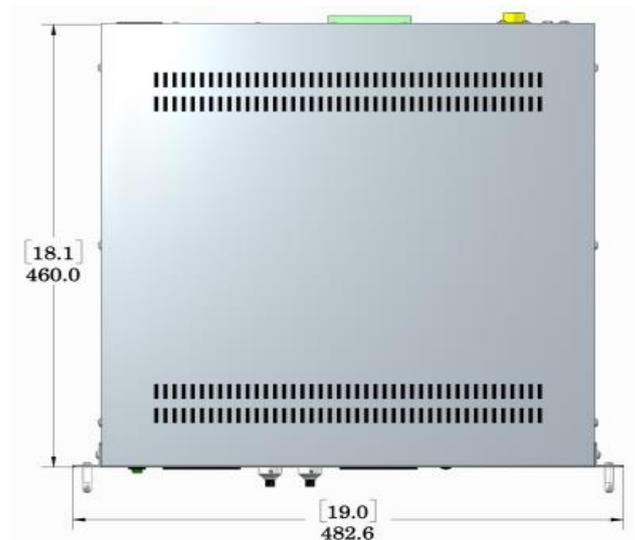
\*Optional. RS232 interface available at an extra cost

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	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		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](mailto:info@ionics.co.in)  
For product line information visit us at [www.ionics.co.in](http://www.ionics.co.in)