

This series of power supplies can generate two independent outputs of same or opposite polarities in the same power supply both having single control OR independent controls depending on requirement. These are housed in compact 19" racks to give a highly regulated output.

Features:

- ❖ Two Independent Outputs in One Power Supply
- ❖ Single / Dual Control
- ❖ Precision Regulated
- ❖ High Stability
- ❖ 19" Rack Mountable
- ❖ OEM Customization Available



| PARAMETER | | SPECIFICATION |
|--|-------------|---|
| Input Voltage | | 230V \pm 10% AC, 50Hz, single phase for output power \leq 2kW 415V \pm 10% AC, 50Hz, three phase for output power \geq 2kW |
| Output Voltage Range* | | 1kV to 100kV DC |
| Output Power Range* | | 50W to 5kW |
| Number of Outputs | | 2 |
| Polarity* | | Positive & negative (Two outputs will be available simultaneously) |
| Voltage Regulation | Line | \leq 0.1 to 0.05% for \pm 10% variation in input voltage |
| | Load | \leq 0.5 to 0.1% for 0 to 100% load variation |
| Current Regulation | Line | \leq 0.5 to 0.1% for \pm 10% variation in input voltage |
| | Load | \leq 0.5 to 0.1% for 0 to 100% load variation |
| Stability | | < 0.1 to 0.05%/hour after 1 hour warm up |
| Temperature Coefficient | | < 0.1 to 0.05%/°C |
| Regulating 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 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 with indication Output ON/OFF switch with indication (2 sets) 3½ digit voltage and current meters (2 sets) 10-turn potentiometer for voltage control Constant voltage – constant current mode indication (2 sets) |
| Back Panel | | Socket for mains input with 250V, 10A 3 conductor power cord of 1.5 meters / |

| | |
|-------------------------|---|
| | Terminal block for 3 phase input Fuse holder with fuse Terminals for output Stud for grounding the unit Remote interface connector # (2 sets) |
| Topology | High frequency resonant / PWM-controlled switch mode |
| Switching Device | IGBT |
| Cabinet | 19" rack, powder coated |

*Optional. To be specified by the user.

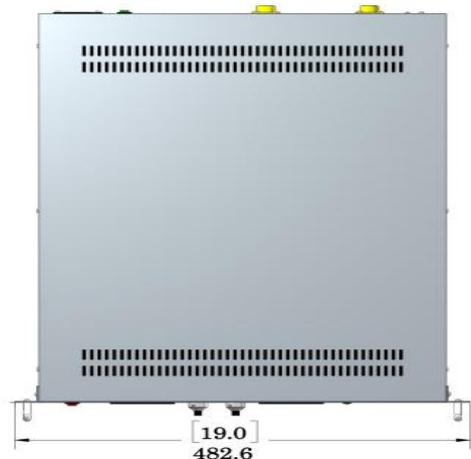
#For remote operation digital interface available at an extra cost.

| 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 |

*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