This series of power supplies can generate output that ranges from 3kV to 6kV, 3kW to 6kWand are housed in compact 19” racks to give a highly regulated output. These unit are typically used for glow discharge application.

**REGULATED HIGH VOLTAGE POWER SUPPLY**

**-6kV, 1A**



**Features:**

* Precision Regulated
* Low Ripple
* High Stability
* 19” Rack Mountable
* OEM Customization Available

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| **Technical Specifications** |
| **PARAMETER** | SPECIFICATION |
| Input Voltage | 415V±10% AC, 50Hz, three phase |
| Output Voltage  | 0 to 6kV DC |
| Output Current | 0 to 1A |
| Polarity | Negative |
| Voltage Regulation | Line regulation: ≤0.05% of full voltage and +500mv over the specified input range.Load regulation: ≤0.1% of full voltage and +500mv for no load to full load change.     |
| Current Regulation | Line regulation: ≤ 0.1% of full current over the specified input range.Load regulation: ≤0.2% of full current and +/- 100uA for any voltage change.  |
| Stability | ≤ 0.05%/hour after 1 hour warm up |
| Temperature Coefficient | < 0.05%/ºC |
| Regulation Mode | Constant voltage – Constant current |
| Voltage & Current Control | Local: By 10-turn potentiometers with lockable counting dials on the front panel over entire range from zero to maximum rating Remote: Control through computer interface\* |
| Protections | Against over current, over voltage, over temperature, short-circuit and arc |
| Remote Controls & Signals through D-Connector (External RS232 Microcontroller Module) \* | 10V DC reference10V DC HV enable signal0 to 10V DC signal for voltage & current control0 to 10V DC signal for voltage & current monitoring |
| Protections | Against over current, over voltage, over temperature, short-circuit and arc |
| Cooling | Forced air |
| Front Panel | MCB for mains power ON/OFF with indication3½ digit voltage and current meters10-turn potentiometers for voltage and current controlLED indication for faulty tripPush button to reset trip conditionConstant voltage – constant current mode indication |
| Back Panel | Terminal block for mains input Fuse holders with fuseTerminals for outputStud for grounding the unit |
| Topology | High frequency resonant / PWM-controlled switch mode |
| Switching Device | IGBT |
| Cabinet | 19” rack, powder coated |

\*Optional. RS232 interface available at an extra cost.

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| Remote Interface Connector Configuration |
| Pins | **14 Pin Pluggable Connector** | **25 Pin D Connector** |
| 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 |

For any queries or customization requests contact us at info@ionics.co.in

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