**ASSYMETRIC BIPOLAR PULSED-DC POWER SUPPLY**

**+40V to -800V Pulsed-DC, 50W to 5kW**

This series of power supplies generate alternate pulses of opposite polarities. The output voltage, pulse width and the pulse frequency are all controllable through 10 turn potentiometers and switches.

**Features:**

* Pulsed & Continuous
* Regulated
* Frequency & Duty Cycle Controllable
* 19” Rack Mountable

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| **Technical Specifications** |
| **PARAMETER** | SPECIFICATION |
| Input Voltage | 230V ±10% AC, 50Hz, single phase for output power ≤ 2kW415V ±10% AC, 50Hz, three phase for output power > 2kW |
| Output Voltage Range\* | +40 to -800V DC in pulsed mode (variable)0 to -800V DC in continuous mode (variable) |
| Output Power Range\* | 50W to 5kW |
| Frequency Range\* | 1kHz to 100kHz |
| Frequency Control Range | Minimum to maximum of rated frequency range |
| Duty Cycle Control Range in Pulsed Mode\* | 10% to 45% variable (A 10V signal is provided at the back panel for measurement with an external oscilloscope) |
| Mode of Operation | Pulsed or continuous |
| Regulating Mode | Constant voltage – Constant current |
| Voltage, Current, Frequency & Duty Cycle Control | By 10-turn potentiometers on the front panel |
| Protections\* | Against over load, short-circuit and arc |
| Front Panel | Power ON/OFF switch / MCB with indication3½ digit voltage, current and frequency meters10-turn potentiometers for voltage, current, frequency and duty cycle control selector switch for pulse mode or continuous mode selectionConstant voltage – constant current mode indication Pulse mode- continuous mode indication |
| Back Panel | Socket for mains input with 250V, 10A 3 conductor power cord of 1.5 meters / Terminal blocks for 3 phase input Fuse holder with fuse BNC connector to measure duty ratio with an external oscilloscopeTerminal for HV output with 10ft of detachable high voltage cable Stud for grounding the unit |
| Topology | High frequency resonant / PWM-controlled switch mode |
| Switching Device | IGBT |
| Cabinet | 19” rack, powder coated, 3U to 5U depending on power rating |

* OEM Customization Available

\*Optional. To be specified by the user.







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)