This series of precision regulated power supplies consist of a high voltage unit for electron gun and a filament supply, either floating on high voltage or at ground potential, both house in a single rack These are designed specifically for scanning Electron Microscope that require high stability and low ripple noise.

**REGULATED HIGH VOLTAGE POWER SUPPLY FOR**

**SCANNING ELECTRON MICROSCOPE**

**Up to 120kV, 150W**

**Features:**

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

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| **Technical Specifications** |
| **PARAMETER** | SPECIFICATION |
| Input Voltage | 230V ±10% A C, 50Hz, single phase |
| Front Panel | AC Power ON/OFF switch with indicationHV ON/OFF switch with indication3½ dig it meters for display of output high voltage & current, filament voltage10-turn potentiometers for control of high voltage and current, filament voltage |
| Back Panel | Socket for mains input with 250V, 10A/20A 3 conductor power cord of 1.5 metersFuse holder with fuseTerminal for HV output with 10ft of detachable high voltage cableTerminal for filament outputStud for grounding the unitRemote interface connector\* |
| Topology | High frequency resonant / PWM-controlled switch mode |
| Switching Device | IGBT |
| Cabinet | 2U to 5U 19” rack mountable, powder coated |
| HIGH VO LTAGE POWER SUPPLY |
| Output Voltage Range\* | Upto 120kV DC |
| Output Power Range\* | Upto 150W |
| Polarity\* | Negative |
| Line Regulation | Better than 0.005% for 10% variation in input voltage |
| Load Regulation | Better than 0.005% for 0 to 100% load variation |
| Ripple | 0.05% at full rating |
| Stability | Better than 0.005%/hour after 1 hour warm up |
| Regulation Mode\* | Constant voltage |
| Voltage & Current Control\* | Local: By 10-turn potentiometers on the front panelRemote: 0 to 10V DC signals for voltage & current control |
| Protections\* | Against over load, over current, short-circuit and arc |
| Remote Controls & Signals through Pluggable Connector / D-Connector | 10V DC reference10V DC HV enable signal0 to 10V DC signal for voltage & current control0 to 10V DC signal for voltage & current monitoring |
| FILAMENT POWER SUPPLY |
| Output Voltage Range\* | 10V DC typical |
| Output Power Range\* | 4A typical |
| Polarity\* | Floating on high voltage output / Positive |
| Line Regulation | 1% |
| Voltage Control\* | Local: By 10-turn potentiometers on the front panelRemote: 0 to 10V DC signal for voltage control |
| Remote Controls & Signals through Pluggable Connector / D-Connector | 10V DC reference0 to 10V DC signal for voltage & current monitoring0 to 10V DC signals for voltage control |

\*Optional. To be specified by the user only as per application’s requirement.

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)