

# Power Supply

## 4ch, 1kV, 10mA/ch

### Model G10735-10A

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**Description:** This electrostatic chuck power supply and control is suitable for operation of coulombic or Johnson-Rahbeck chucks up to 450mm size for the newest processes.

The features of this control are:

- High voltage power for bipolar operation
  - Floating output from 50V to 1000V, programmable and tracking
  - Four independent output channels
  - Center-tap option available for output bias control
  - 10mA current capacity per channel (40mA total output)
  - Wafer presence signal provided for each channel
  - Selectable and programmable polarity for each channel WRT center-tap for that channel
  - High voltage monitor provided for each channel as both analog and communications feedback
  - Current monitor provided for each channel as both analog and communications feedback
  - Programmable overcurrent alarm for each channel
  - Programmable voltage compliance for each channel
- Analog interface for setpoints, feedback, and control.
- Serial RS232 interface for configuration of setpoints, feedback, and control.
- May be operated using RS232, remote ON/OFF with internal setpoint, remote ON/OFF with analog control.
- Interlock in IO control cable. Interlock enable uses external dry contact closure. Single interlock interrupts all channels simultaneously.
- Size: 17" wide by 8" high by 10" long. May be ordered with standard 19" rackmount faceplate.

#### **Environmental:**

Operating Temperature: 0 to +70C

Storage Temperature: -30 to +85C

Humidity: 0 to 90%, non-condensing.

ESD Sensitivity: All inputs and outputs safe to 15kV human body model

Power Dissipation: 60W maximum

#### **Electrical Specifications:**

- Power is 85-230VAC, 5A maximum, local ON/OFF switch.
- MHV high voltage output connectors
  - Dielectric breakdown = 5000 VDC
  - Interlock in each connector
  - Center-tap in each connector
- BNC center-tap connector per channel optional