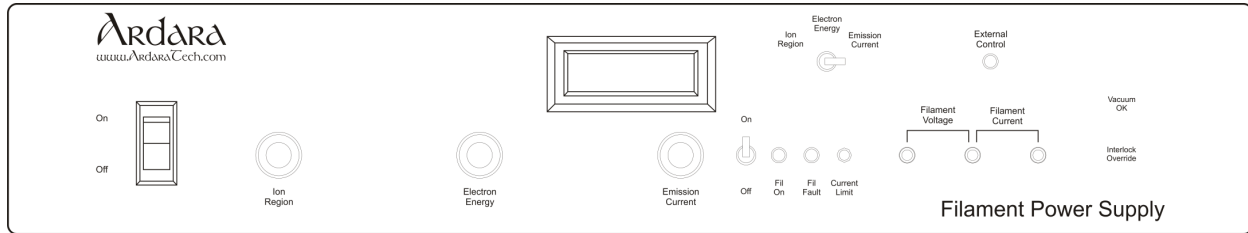


## Filament Power Supply



The Ardara Technologies Filament Power Supply was designed to provide stable emission-regulated electron current from a heated filament for use with electron impact ionizers such as Ardara Technologies' Axial Molecular Beam Ionizers and Cross Beam ionizers.

- Rated at up to 100 Watt output (up to ten amperes filament current with up to ten volts across the filament).
- Ion Region power supply can be adjusted from -100V to +100V via front panel potentiometer.
- Electron Energy factory configured for 15 to 100 eV electron energy relative to the ion region potential, adjusted via front panel control.
  - Lower electron energies possible with factory adjustment.
  - Filament current limit adjustable via front panel potentiometer.
- Emission current control via front panel potentiometer to 5 mA, regulated as the electron current leaving the filament circuit to reach the ion region circuit
- Front Panel Voltmeter with selector switch shows actual Ion Region potential, Electron Energy, and Emission Current.
- Front panel filament On/Off switch enables the emission current; when emission is off, the electron energy supply is still enabled.
- Front panel LED's indicate filament enabled and filament failure states.
- Front panel 'Computer' switch supports external control via back panel connection of Ion Region Potential (-10 to +10 volt command yields -100 to +100 V), Electron Energy (0 to +10 V command yields 15 to 100 eV electron energy), and Emission Current (0 to +10V command yields 0 to 5 mA emission current).
- Dimensions: 19 inch rack mount front panel, 3.5 inches tall, 14 inches deep.
- Universal AC input (100-240VAC, 50-60 Hz)