



706
Power Supply for Deuterium Lamp

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The Bentham 706 houses a high performance deuterium lamp power supply, designed to possess excellent electrical stability and ignition properties to ensure reliable starting and to improve operating lifetime.

The 706 is used to operate the following Bentham light sources containing a deuterium lamp:

- **IL6-Deut** General purpose UV illuminator

- **CL3** UV spectral irradiance calibration standard
- **CL7** enclosed UV spectral irradiance calibration standard.

The automatic ignition process is started by powering on the 706 unit. The heater current warms the cathodes for ten seconds before the lamps is ignited. The anode current is regulated to 300mA.

Electrical Performance

| | |
|-------------------------|--|
| Anode Voltage | 60-110 V DC |
| Anode Current | 300 mA DC \pm 2.5% |
| Anode Current Stability | \leq 0.05% peak-peak |
| Anode Current Drift | \leq 0.1%/ h (after 30 minute warm-up) |
| Heater Voltage | 2.5V DC (warm-up) 1.0V DC (in operation) |
| Heater Current | 4.0A DC (warm-up) 1.8A DC (in operation) |
| Warm-up Time | 10 s |
| Strike Voltage | 600V |

Input/ Mechanical

| | |
|--------------------|-------------------------------|
| Indications | Power on LED, lamp strike LED |
| Overall dimensions | 205W x 141D x 79H |
| Weight | ~2 kg |
| Power supply | Mains input 110/220V 50/60Hz |

Dimensions

