



**706**  
Power Supply for Deuterium Lamp

# 706

## Power supply for deuterium lamp

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:

- **IL6-Deut** General purpose UV illuminator
- **CL3** UV spectral irradiance calibration standard
- **CL7** enclosed UV spectral irradiance calibration standard

Use of the 706 power supply with these lamps ensures excellent stability of radiation for reliable UV measurements in the UV.

In the automatic ignition process, 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.

The supply has very low noise and drift characteristics, and uses a novel ignition circuit to ensure a soft and reliable arc initiation even when the lamp is hot.

### 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

