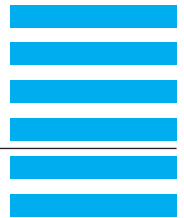


Power Supply for 30 W Deuterium Lamps



- operates most commercial 30 W Deuterium lamps
- fully automatic in operation

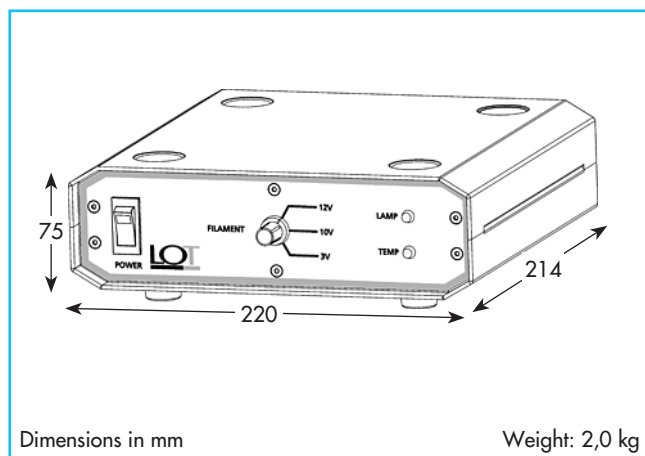
Deuterium lamps require special power supplies. A main power supply must supply the discharge current and a filament power supply has to provide the optimum cathode operating temperature. The regulation of both supplies is important because it has a large effect on radiant intensity and therefore stability.

This power supply operates our Deuterium arc lamps in the recommended manner and is also suitable for most 30 W lamps made by other manufacturers.

After switching on, the filament supply is initiated to pre-heat the filament for a fixed period of 15 seconds to achieve the optimum cathode operating temperature. After this period, the anode voltage and ignition voltage pulse are applied.

When the lamp ignites and discharge begins, both the heating and discharge current flow into the filament. In order to prevent overheating of the cathode the filament voltage must be reduced to maintain the optimum cathode operation temperature.

Our power supply is for use with 12, 10 and 3 V lamps and provides automatic switching from warm-up voltage to operating voltage. The supply is preset at an anode current of 300 mA, this being the optimum current for the majority of Deuterium lamps.



Specifications

LSN121	
Output Ratings	
Anode Voltage:	Open Circuit: 140 V Loaded: 60 – 100 V
Anode Current:	300 mA ± 0,1 %
Current Ripple:	0,1 %
Stability:	0,1 % @ 8 hours
Ignition Voltage:	550 ± 50 V
Preheating Voltage:	3; 10; 12 V
Heating Voltage:	1,5; 6 V
Input Ratings	
Line Voltage:	100 - 240 V AC (± 10 %) 50 - 60 Hz
Line Regulation:	± 0,2 %
Power Consumption:	50 VA, max.
Operating Conditions	
EMV/EMC:	EN61326 Class B, EN 610003-2/3
Safety:	EN61010-1: 2002
Ambient Temperature:	0° C ... +40 °C
Storage Temperature:	-20°C ... +85°C