

5. CHECKING THE FUSE

DC.35.50 AC main input is electrically protected by one fuse. Due to the advanced design of the power supply, the situations in which the fuse must be replaced are very rare, the fuse is soldered on the PCB. In such situations, some other parts than the protection fuse may be eventually damaged. So changing the protection fuse is not possible for the user, and this operation must be performed in the after sales service. For further information, please contact EUROSEP Instruments.

IMPORTANT

A molten fuse is often the materialization of a more important electrical problem.

6. SPECIFICATIONS OF THE POWER SUPPLY

6.1. Electrical specifications

- Main AC Input Voltage : 93-127V or 187-257V,
- Frequency : 50 or 60Hz,
- Operation wattage : 35 or 50W.

6.2. Outputs

- Lamp output : 35W ou 50W,
- Auxiliary output : 12V-250mA,
- Lamp stage output : 12V-30mA.

6.3. Thermal specifications

- Cooling via fan (fan not included),
- Operating temperature : 0° to 40°C,
- Electrical Thermal Safety : Automatic shutdown at 95°C.

6.4. Dimensions

- Length : 191 mm
- Width : 100 mm,
- Height : 60 mm,
- Weight : 0,500 kg.

OEM POWER SUPPLY SPOT.DC35.50.D2 FOR LOW VOLTAGE XENON LAMPS

The DC35.50.D2 OEM Power Supplies have been especially designed for optimum operation with low pressure xenon D2 lamps from 35 to 50 Watts. These lamps, which have a high luminous efficacy (106 Lm/W for 50W lamp) and a 4250°K light temperature, are relevant for applications in the field of medical and industrial endoscopies.

IMPORTANT

Before switching ON the power supply , it is essential to check the main AC input voltage (110V ou 220V) see Chapter 1.

It is also essential to ventilate it properly. A bad ventilation may cause important electrical damage which will invalidate the warranty. For further information on this specific point, please contact EUROSEP Instruments.

1. MAIN INPUT VOLTAGE ADJUSTMENT

The SPOT.DC35.50.D2 power supplies are designed to operate from the following main AC input voltages :

- 97-127 V - 60 Hz,
- 187-257 V - 50 Hz.

IMPORTANT

In order to adjust the main input voltage at the desired value, proceed as follows :

- Unplug the power supply from the main AC voltage,
- Localise le shunt which allows the selection of the desired main AC voltage (see Fig.1),
- Connect the shunt as follows :
 - Between the common and the 220V faston for a main AC input voltage 187-257V/50Hz,
 - Between the common and the 110V faston for a main AC input voltage 97-127V/60Hz.

2. OUTPUT POWER ADJUSTMENT

The SPOT.DC35.50.D2 power supplies are designed to operate with lamps of 35 and 50 Watts.

IMPORTANT

The power supplies are delivered in factory to operate with a 35W lamp.

In order to adjust the output voltage value which allows to operate with a 50W lamp, proceed as follows :

- Unplug the power supply from the main AC voltage,
- Localise the resistor "R" allowing to set the output voltage to the desired value (see Fig.1),
- To operate with a 35W lamp : keep the resistor "R" in place,
- To operate with a 50W lamp : remove the resistor "R"

3. AUXILIARY OUPUTS

3.1. Auxiliary Output

When the SPOT.DC35.50.D2 power supply is ON, this output delivers a voltage of 12V/250mA (see Fig.1). This output delivers the requested voltage for a fan or for accessories of low electrical consumption.

3.2. LAMP STAGE OUTPUT

When the lamp is ON, this output delivers a voltage of 12V with a low current which allows to supply a LED.

For further information concerning the LED, please contact EUROSEP Instruments.

4. LAMP CONNECTION

In order to connect the lamp, please refer to Fig.1. Cables are not polarised, D2 lamps (35 or 50 Watts) are supplied in alternating.

IMPORTANT

For lamp ignition, the SPOT.DC35.50.D2 power supplies deliver a high voltage (around 25kV). In order to obtain an efficient ignition, it is important not to increase the connection cables length.

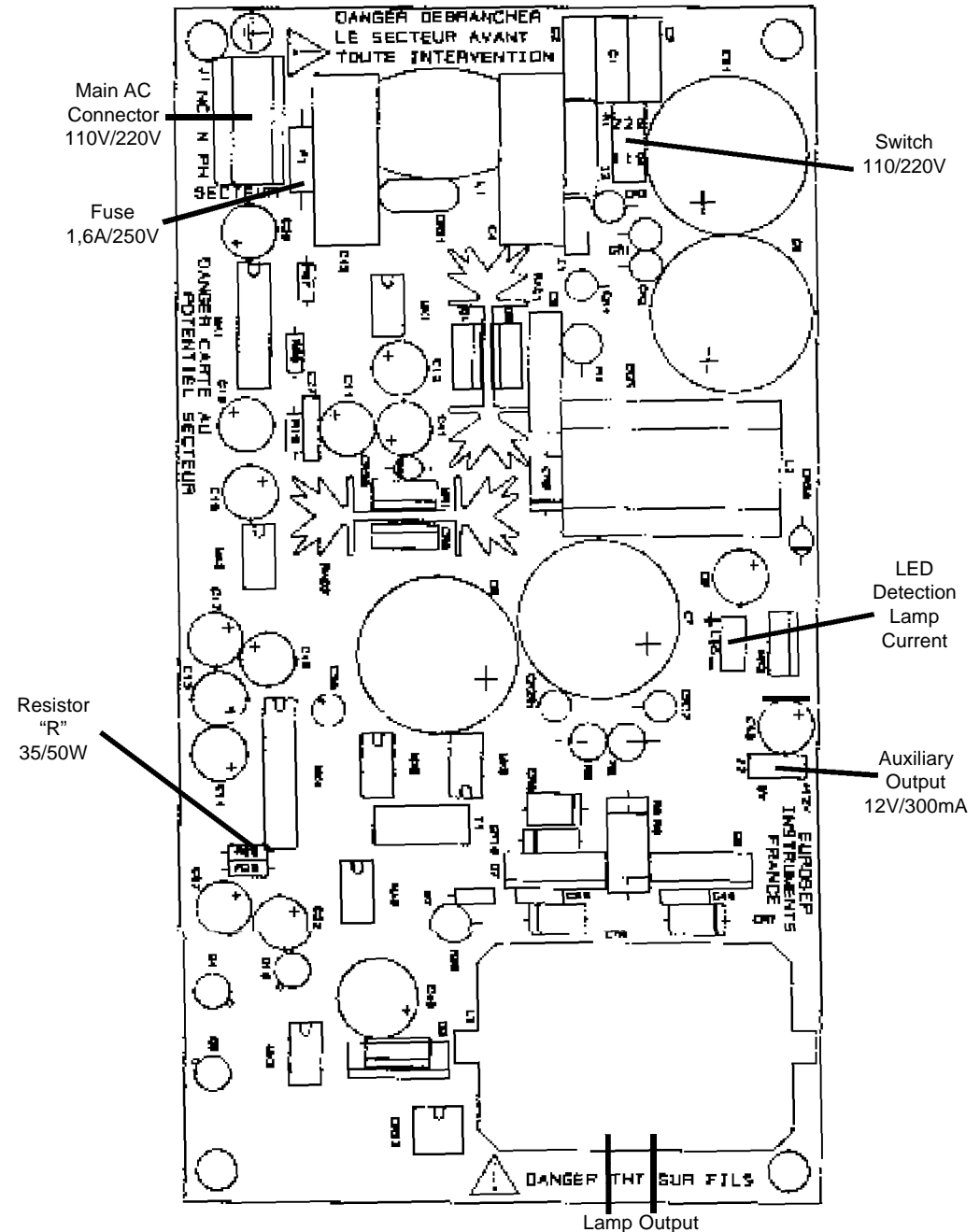


Fig. 1 : SPOT.DC35.75.D2 Power Supply Diagram