



Spotlight DC 500

500W Xenon Power Supply



The **Spotlight DC 500** OEM Xenon Power Supply is an electronic current regulated power supply, including a "On Line" PFC (Power Factor Correction) adjustable in current from 8 to 35A, in a voltage range from 12 to 30VDC. Its maximum wattage output is 585W.

The **Spotlight DC 500** OEM Xenon Power Supply includes a 30kV integrated electronic ignitor and is designed to operate any xenon lamp from 300W to 500W (see the list below). The lamp ignition can be either automatic or remote-controlled from a logic signal. The 30kV pulsed high voltage is supplied with a minimum electromagnetic disturbance for the environment.

According to the lamp ignition specifications, the SPOTLIGHT DC500 range is composed of two models :

SPOTDC500 : power supply with ignition by the (-),
SPOTDC500P1 : power supply with ignition by the (+).

The lamp life time is depending on the power supply specifications, especially in regard to the ripple rate of the lamp operating current versus the main input intensity and also to the lamp current stability.

The "State of the Art" electronic design provides efficient operation free from electrical noise (stability better than 1%) with a minimum current ripple (lower than 1%).

In addition, several outputs are available :

- | A true 12VDC/12VA isolated from the lamp output, ideal to supply a μ -Processor board,
- | A 12VDC/12VA for fan supply,
- | A "LED Status" providing information if the lamp is in a ON or OFF mode.

The **Spotlight DC 500** OEM Xenon Power Supply operates from a 95-240VAC/50-60Hz main voltage. The "On Line" PFC provides an automatic main voltage selection as well as minimized electromagnetic disturbances.

All Eurosep Instruments products are designed and manufactured to conform in all respects to the relevant standards and regulations in use especially following the requirements of the Safety and CEM European Directives as well as UL and CSA.

APPLICATIONS

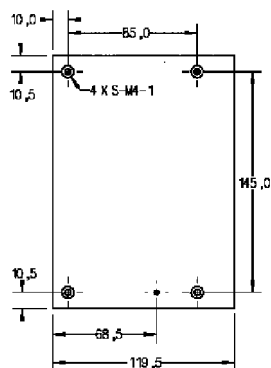
- n *Industrial Endoscopy,*
- n *Photo optic Lighting,*
- n *Video Projection Lighting,*
- n *Fiber Optic Transmission,*
- n *Spectroscopy,*
- n *Fluorescence Microscopy,*
- n *Scientific Instrumentation,*
- n *Solar Simulation,*
- n *UV Polymerisation,*
- n *Visual Inspection.*

EUROSEP

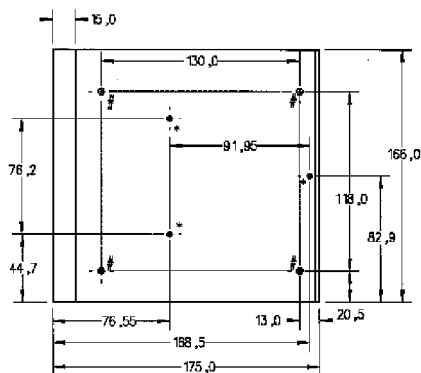
Instruments

Spotlight DC 500 500W Xenon Power Supply

Physical Dimensions



Spotlight DC 500 : Side View
Dimensions in mm



Spotlight DC 500 : Top View
Dimensions in mm

Physical Specifications :

- | Length : 175mm (6,9in.)
- | Height : 120mm (4,8in.)
- | Width : 166mm (6,5in.)
- | Weight : 2,4Kg (2,2lb.)

Lamps Operating With DC 500

LAMP TYPE	EUROSEP Lamp REF.	MANUFACTURER Lamp REF.	ELECTRICAL PARAMETERS
VERTICAL XENON LAMP	XC.450.NOS	XBO 450W	25A/17VDC
	XC.450W.1.OS	XBO 450W/1	25A/17VDC
	XC.450W.2.OS	XBO 450W/2 OFR	25A/17VDC
	XC.450.OS	XBO 450W OFR	25A/17VDC
	XC.450.4.OS	XBO 450W/4	25A/17VDC
	XC.500.HOS	XBO 500W/H OFR	28A/17VDC
	XC.500.ROS	XBO 500W/RC OFR	30A/17VDC

Lamps Operating With DC 500P1

LAMP TYPE	EUROSEP Lamp REF.	MANUFACTURER Lamp REF.	ELECTRICAL PARAMETERS
CERAMIC XENON LAMP	XC330.C10	XE330C-10FH	22,8A/15,5VDC
	XC330.C13	XE330C-13FH	22,8A/15,5VDC
	XC420.C10	XE420C-10FH	25,8A/15,8VDC
	XC420.C13	XE420C-13FH	25,8A/15,8VDC
	XC500.C10	PE 500C-10	32A/15,5VDC
	XC500.C13	PE 500C-13	32A/15,5VDC

DC 500 Technical Specifications

Electrical Specifications :

- | Operating Wattage : Maximum 585W
- | AC Main Input Voltage : Autoselect 95-240VAC / 50-60Hz via "On Line" Power Correction Factor (PFC) module
- | Lamp Output Current : From 8 to 35A
- | Lamp Output Voltage : Maximum 30VDC
- | Aux. Logic Output : 12VDC/1A isolated from lamp output
- | Aux. Fan Output : 12VDC/1A
- | Aux. Lamp Status : LED ON (0VDC) / LED OFF (12VDC)
- | Lamp Current Regulation : Better than 1%
- | Lamp Output Ripple : Less than 1%
- | Lamp Current Adjustment : 2 independent channels adjustable via potentiometers
- | High Voltage Lamp Ignition : 30kV minimum

Thermal Specifications :

- | Cooling : Via external fan
- | Operating Temperature : +10° to +40°C
- | Storage Temperature : +10° to +70°C
- | Electronic Thermal Safety : Automatic at +80°C

Fastening Specifications :

- | Via 4 screws M4 : Location on underside 130 x 118mm
- | Via 2 screws M4 : Location on side 145 x 85mm
- | Via 3 screws US 6-32 UNC-2B : Location on side

Regulations and Normatives :

The Spotlight DC 500 is designed to meet the following regulations and normatives :

- | CEM Emission : EN 55011,
- | CEM Immunity : EN 60601-1-2, EN 61000-4-2/3/4/5
- | Safety : EN 60601-1 et EN 61010-1

Specifications subject to change without notice. The mentioned marks are registered trade marks of their respective manufacturer.

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