

# UNIVERSAL LIGHT SOURCE FOR 100 – 500 W Xe, HG, Hg-Xe, Halogen

## PEM 500 + LAX 1450 M



### Power supply

- Power supply with switched mode technology
- Very good stability
- Changing from Xe to Hg: automatically correct polarity
- Correct current of the lamps pre selectable with a selection switch
- Built-in light regulation
- Indicator LED for light and current regulation

### Lamp housing

- Built-in light feed back control
- Rear reflector
- Ozone remover
- Lamp and rear mirror precisely adjustable with micrometer screws
- Built-in igniter
- Quartz condenser (LAX...-11)

The power supply PEM 500 together with the lamp house LAX 1450M builds a universal light source for irradiation applications which require a frequent change of the emission spectrum from Xenon to Mercury. The quadruple power graduation of 100 W Hg, 150 W Xe, 200 W HgXe, 450 W Xe makes possible any sensitive adaptation to the foreseen experiment. The light source is equipped with a safety circuit, which immediately cuts off the current if the lamp housing is open or if the temperature in the lamp house becomes too high.

## Specification

### Lamp housing LAX 1450 M

Maxi. Power:	500 W
Maxi. Lamp length:	260 mm
Lamps:	HBO 100 W/2, XBO 150 W/1, HVIN 200-1 XBO 450 W/1
Adapters:	MHO 100 UM, VIX0 150, MHH 200, VIX0 450
Lamp adjustment:	in 2 planes with micrometer screws
Rear reflector adjustment:	in 3 planes with micrometer screws
Depth of focus:	150 mm bis $\infty$
Min. optic axis height:	165 mm
Built-in igniter:	30 kV HF
Light feed back control:	built on the right side.
Cooling:	with ozone remover
Dimensions:	170 W x 200 D x 377 H mm <sup>3</sup>
Weight:	7,2 kg

### Power supply PEM 500 (Current regulation)

Supply:	220 V $\pm 10$ %, 50 Hz, 750 VA
Output power:	500 W
Current:	selectable, 5.0 A, 7.5 A, 8.5 A, 25.0 A
Current adjustment:	10 turns setting potentiometer
Voltage:	10-28 V
Without load:	120 V
Line regulation for $\pm 10$ % mains voltage:	0.3%
Regulation accuracy:	0,3 % (Current regulation)
Light regulation:	Stability of the setted intensity: 0,2 % maxi. spectral sensitivity at 850 nm
Digital readout:	3.5 digits, switch able from current to voltage display
Switches:	illuminated mains switch, illuminate starter indicating ready for ignition of Xe and Hg-lamps LED indicator for current or light regulation
Dimensions:	200 W x 170 D x 370 H mm <sup>3</sup>
Weight:	8,5 kg

### - Options:

LAX 1450-12	Condenser with 2 achromatic lenses	AS	Autostart for arc lamps
LAX 1450-4	Base plate (variable height)	MZ 2	Ignition unit necessary for igniting arc lamps in lamphouses from other suppliers
MSP 05	Pulsing unit		