



**LED**

## LED Powerline LC HV

**Max. irradiation intensity: up to 25.000 mW/cm²**

**Wavelength: 365, 385, 395 and 405 nm**

**Water cooled**

### System-Features

- High irradiation power
- Compact design
- Different wavelengths available
- 400V DC supply (reduced cable cross sections)

### Advantages

- Low temperature load
- No warm-up phase
- Continuous regulation
- Energy-saving
- Long service life

## LED Powerline LC HV

The **LED Powerline LC HV** is a high-performance UV-LED array for intermediate curing (pinning) and final curing at printing applications. Other application fields are the curing of varnishes or UV reactive adhesives and pottings.

The typical **LED service life is more than 20.000 hours\***. The LEDs can be switched on and off as often as required without any warm-up or cooling phase.

The **LED Powerline LC HV** is available in the wavelengths **365/385/395/405 nm** +/- 10 nm. This variety allows to adjust the wavelength to each application.

### Special features

- Power supply via 400 V DC
- Driving and monitoring of each LED segment via a LED driver which is integrated in the housing
- Separate regulation of each LED segment, e.g. for format size control
- Monitoring of each LED segment regarding short-circuit, interruption and excess temperature
- Registration of operating hours of LED segments
- Analogue dimming of the segments via a 0-10 V signal
- Digital PLC-interface (Emergency-stop, LED-on, LED-off, LED-failure)
- BUS-controlled via Ethernet

### Technical data

LED service life	> 20.000 hours *			
Cooling	Water cooled			
Irradiated area / Light aperture in mm:	60 - 1.680 x 20 60 - 1.680 x 40 other lengths in 60 mm grid steps			
Wavelengths in nm Intensity in mW/cm <sup>2</sup> **	20 mm version:			
	365	385	395	405
Wavelengths in nm Intensity in mW/cm <sup>2</sup> **	40 mm version:			
	365	385	395	405
Wavelengths in nm Intensity in mW/cm <sup>2</sup> **	8.000			
	16.000	16.000	16.000	16.000

\* typical lifetime under specified operating conditions

\*\* measured with Hönle UV meter with LED sensor

### Advantages of LED technology

LEDs do not emit infrared irradiation. Thanks to the low temperature load on the substrate even heat-sensitive materials can be irradiated. The different spectra guarantee a safe and fast curing.

As LEDs do not need any warm-up phase, the LED heads can be switched on and off as often as required and they are immediately ready for operation at any time.

