





# **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
- Continous 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**

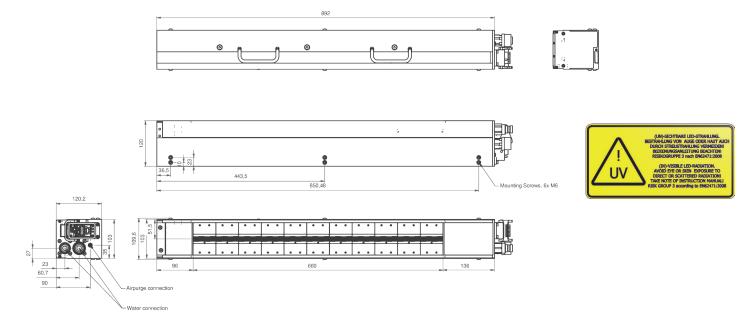
| LED service life                            | > 20.000 hours *  |                                       |  |               |
|---|---|---------------------------------------|--|---------------|
| Cooling                                     | Water cooled  |                                       |  |               |
| Irradiated area /<br>Light aperture in mm:  | 60 - 1.680 x 20<br>60 - 1.680 x 40<br>other lengths in 60 mm grid steps |                                       |  |               |
| Wavelengths in nm<br>Intensity in mW/cm²**  | 365<br>12.000   | version:<br>385<br>25.000<br>version: |  | 405<br>25.000 |
| Wavelengths in nm<br>Intensity in mW/cm² ** |   | 385<br>16.000                         |  | 405<br>16.000 |

<sup>\*</sup> typical lifetime under specified operating conditions

# **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.



<sup>\*\*</sup> measured with Hönle UV meter with LED sensor