



LED

LED Powerline LC

Irradiation width due to application

(76 mm - 3.000 mm)

Max. irradiation intensity: up to 25.000 mW/cm²

Wavelength: 365, 385, 395 and 405 nm

Water cooled

System-Features

- High irradiation power
- Very small dimensions / different lengths
- Low weight
- Different wavelengths available

Advantages

- Low temperature load
- No warm-up phase
- Appropriate for clean rooms

LED Powerline LC

The **LED Powerline LC** is a high-performance array for intermediate curing (pinning) and final curing for printing applications. Other applications 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** is available in wavelengths of **365/385/395/405 nm** +/- 10 nm. This variety allows to adjust the wavelength to the application in question.

With its low weight and small dimension the **LED Powerline LC** can be integrated in the smallest interspaces. The water cooled unit is appropriate for being used in a clean room.

Special features

- Driving and monitoring of a LED segment up to a max. electric power of 400 W
- Monitoring of LED segments regarding short-circuit, interruption and excess temperature
- Temperature compensation of LED power for homogeneous irradiation results
- 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-failure, temperature warning)
- All modules BUS-controlled via RS485



ProcessFlowControl

It is possible to program complete process sequences, e.g. different exposure series including holding times, on the PC, which can be transmitted on the LED controller later on. Due to the ProcessFlowControl even complex irradiation functions without additional SPS can be realized.

Technical data

LED service life	> 20.000 hours *
Irradiated area / output window:	76 x 10 mm different lengths in 40 mm steps
dimensions in mm:	86 x 20 x 50 other lengths in 41mm grid steps
wavelengths in nm	365 385 395 405
typical intensity in mW/cm ² **	14000 20000 25000 25000
Cooling	External water cooling

- * typical lifetime under specified operating conditions
- ** measured with Hönle LED sensors for UV meter

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 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.