



LED Powerline LC & LED **powerdrive**

Max. irradiation intensity: up to 20.000 mW/cm²

Wavelength: 365, 385, 395 and 405 nm

Water cooled

System features

- Extremely long LED service life
- Available in different wavelengths
- High irradiation power
- Small size
- Low weight

Advantages

- Reduction of maintenance costs
- Suitable for temperature sensitive materials
- No warm-up phase
- No stand-by time
- Clean room compatible

LED Powerline LC & LED powerdrive

The **LED Powerline LC** has been developed for all applications requiring a **highly intensive UV irradiance with a low temperature load on the substrate**. The LED assembly, as well as an electronic power control, guarantee high intensity and homogenous distribution of light. The recognition of LED-malfunction and a comprehensive monitoring function provide for very high process stability. So, especially in fully automated production lines, repeatable results can be realised even in shortest cycle times.

The typical **service life of a LED is longer than 20.000 hours***. The LEDs can be switched on and off as often as necessary. They do not require a warm-up or cooling phase.

The emitted wavelengths are available in 365/385/395/405 nm +/- 10 nm. It is thus possible to adapt the LED head to any application in question.

Applications

The **LED Powerline LC** controlled by **LED powerdrive** is appropriate for various applications, such as

- Bonding, fixing or encapsulating of components in the electronic, optical or medical sector
- Fluorescence stimulation for materials testing and picture processing
- High-intensity UV irradiation in the chemical, biological and pharmaceutical sector

LED activation

The irradiation time can be optionally set between the ranges 0,01 - 99,99 sec. or 0,1 - 999,9 sec. or 1 - 9999 sec. Alternatively, continuous operation can be chosen.

The operating status and the actual temperatures of the LED segments as well as the irradiation times can be seen on the display at one glance. **The electrical LED power can also be adjusted between 10 % and 100 % in 1 %-steps.**

The unit registers the LED operating hours as well as the units operating hours.

In summary, the following features characterize the **LED powerdrive** controller:

- Large and clear display with all relevant information
- Intelligent power control
- Temperature / error control of LED
- Shortest cycle time 0,01 s
- with a **LED powerdrive** control 80 a **LED Powerline 80** can be operated
- for a **LED Powerline 120** a **LED powerdrive** control 120 is needed
- **LED Powerline 80** has got 2 LED segments, whereas **LED Powerline 120** owns 3 LED segments

Special features

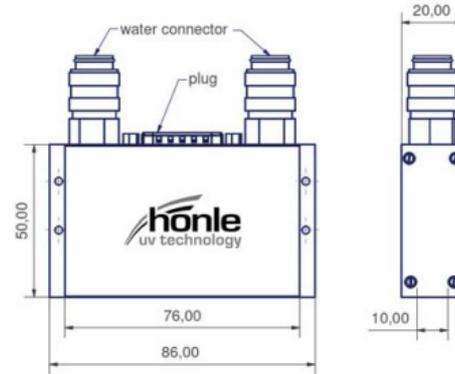
- Monitoring of LED segments regarding short-circuit, interruption and excess temperature
- auto recognition of connected **LED Powerline LC**



Interfaces

The LED **powerdrive** controller has the following interfaces:

- Analog preselected power range 1V - 10V \pm 10% - 100%
- PLC inputs: LED on, LED enable
- PLC outputs: LED on, LED off, LED error, LED warning
- Dry contact with selectable function (cf. PLC outputs)
- Foot switch
- Extern enable input for embedding in safety circuit or for monitoring cooling device

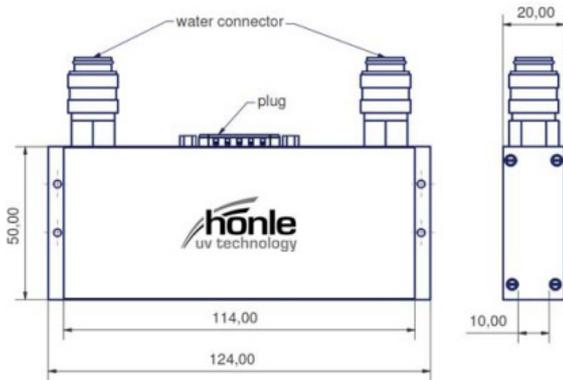


Powerline 80 mm

Technical data

LED service life	> 20.000 hours*
adjustment range of timer	0,01 - 99,99 or 0,1 - 999,9 or 1 - 9999 sec. or continuous operation
wavelengths in nm	365 385 395 405
typical intensity in mW/cm ² **	12.000 16.000 20.000 20.000
power supply	90 V – 264 V,
LED powerdrive	47 Hz – 63 Hz
max. input current	2,2 A
irradiation area ***	ca. 76 x 10 mm or ca. 114 x 10 mm
dimensions LED-head without connectors (H x B x T)	ca. 86 x 20 x 50 mm or ca. 124 x 20 x 50 mm

- * typical time for usage under standard environment conditions
- ** measured with Höhle LED sensors for UV meter
- *** other lengths on enquiry



Powerline 120 mm

Advantages of the LED technology

LEDs **do not emit IR radiation**. Even **temperature-sensitive materials** can be irradiated. The **different spectra** available guarantee safe and fast curing. As LEDs do not require a warm-up phase, LED heads can be switched on and off without any problems: **they are ready for immediate operation**.

More Hönle LED-Units

Watercooled types



LED Spot W

The LED Spot W allows an extremely high UV intensity output - and requires only a very small amount of space.



LED Powerline LC

Maximal length depends on application (lengths variable in 40 mm-steps). Die LED Powerline LC is available in the wavelengths 365/385/395/405 nm.

Aircooled types



LED Spot 100

The unit has a size of 100 x 100 mm. For bigger irradiation fields, several LED Spots 100 can be connected without gaps.



Bluepoint LED

bluepoint LED has been developed for all applications requiring a most intensive punctiform UV irradiation.



LED Spot

The LED Spot operates only with air-cooling and is characterized by a highly intensive irradiation power.



LED Power Pen

By using an unique lens-system this high-performance version of the LED Pen offers a focused UVA intensity of 7.500 mW/cm² (within 12 mm distance to the irradiation exit).

hönle group		Curing	Drying	Bonding	Potting	Measuring
<p>Dr. Hönle AG UV Technology, Lochhamer Schlag 1, 82166 Gräfelfing/München, Germany Phone: +49 89 85608-0, Fax: +49 89 85608-148. www.hoenle.de Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data. © Copyright Dr. Hönle AG. Updated 09/13.</p>						



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