



LED Powerline

UV LED Unit

System-Features

- High irradiation power
- Very small dimensions
- Low weight
- Different wavelengths available
- Water-cooled

Advantages

- Low temperature load
- No heating phase
- Appropriate for clean rooms

LED Powerline

The **LED Powerline** is a high-performance array for intermediate curing (Pinning) and final curing for ink jet printing. Another application is the curing of UV-reactive adhesives and casting compounds. Thanks to the high intensity and the possibility to program complete program sequences – e.g. exposure series with different waiting periods – even complex irradiation jobs with minimum cycle times can be realized, especially in fully automated production lines. The typical **LED service life is superior to 10,000 hours***. The LEDs can be switched on and off as often as required without any warming or cooling phase. The **LED Powerline** is available in wavelengths of **365/375/385/ 395/405 nm**. This variety allows to adjust the wavelength to the application in question.

With its low weight and dimensions of 88 x 20 x 50 mm (L x W x H), it can be integrated in the smallest interspaces. The water-cooled unit is appropriate for being used in a clean room.

Control

A separate unit is responsible for the control of the **LED Powerline** (cf. illustration). The irradiation time can be selected within a range from 0.1 to 999.9 seconds. As an alternative, the mode can be set to a permanent operation.

The **display** shows at a glance the operation states of all connected LEDs as well as the irradiation times. The **electrical LED power can be adjusted in 1% steps from 10% up to 100%**. Beside the LED operating hours, the unit also records the operating hours of the unit as well as the temperature in the LED array.



Technical data

Typical LED service life	> 10,000 hours*
Irradiated area / output window	80 x 10 mm
Setting range of timer	0,1 – 999,9 sec or permanent operation
Wavelengths (+/- 5 pu to 10 nm)	365, 375, 385, 395, 405 nm
Mains supply	90 V – 264 V 47 Hz – 63 Hz
Maximum input current	1,5 A
Maximum connection power	200 W
Cooling	External water cooling
Dimensions in mm (H x B x T)	88 x 20 x 50 (array without connectors)

* depending on operating conditions and ambient temperature

Interfaces

The **LED Powerline** has the following interfaces:

- PLC input: LED on
- PLC output: Status LED
- Dry relay contact with selectable function
- RS 232 interface
- Foot pedal

Advantages of LED technology

LEDs do not emit infrared radiation. 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 warming time, the LED heads can be switched on and off as often as required and they are immediately ready for operation at any time.



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