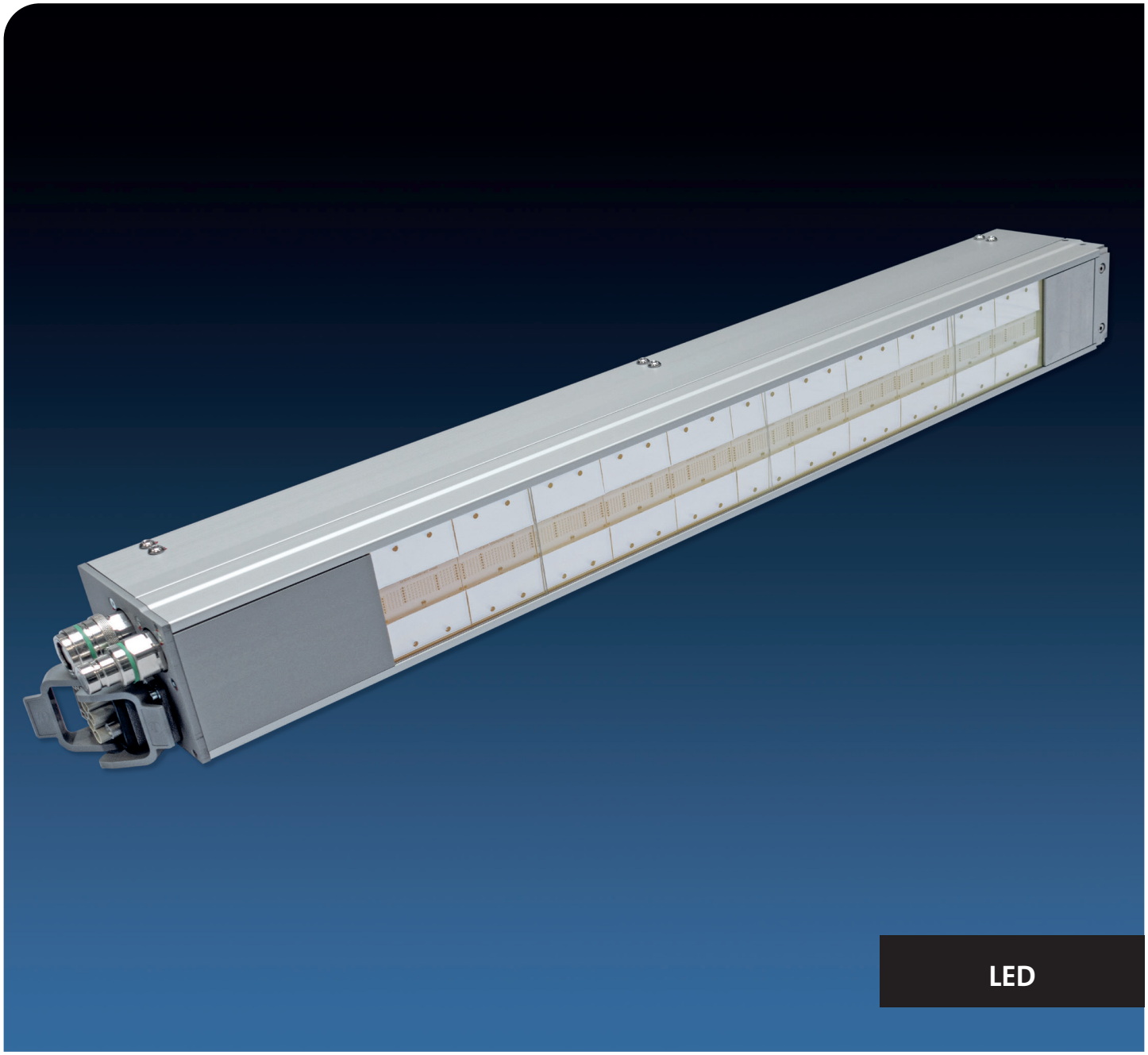
hönle group

hönle uv technology



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
- 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 with EPSA 120 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
- Digital PLC-interface (Emergency-stop, LED-on, LED-off, LED-failure)
- BUS-controlled via Ethernet or Hardware-Interface

Technical data

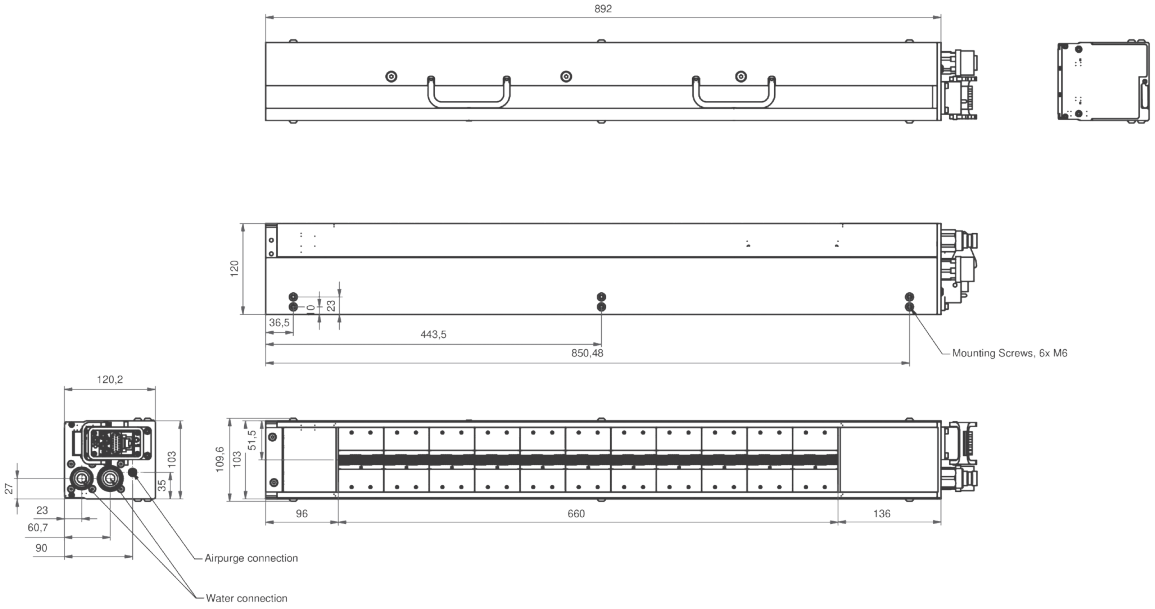
LED service life	> 20.000 hours *			
Cooling	Water cooled			
Irradiated area / Light aperture in mm:	60 - 1.680 x 20 60 - 1.680 x 40 other lengths in 60 mm grid steps			
	20 mm version:			
Wavelengths in nm	365	385	395	405
Intensity in mW/cm² **	12.000	25.000	25.000	25.000
	40 mm version:			
Wavelengths in nm	365	385	395	405
Intensity in mW/cm² **	8.000	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.



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