LED Powerline AC

Max. irradiation intensity: up to 8,000 mW/cm²
Wavelength: 365, 385, 395 and 405 nm
Air cooled

System-Features
• High irradiation power
• Small dimensions
• Low weight
• Different wavelengths available

Advantages
• Low temperature load
• No heating phase
The LED Powerline AC is a high-performance UV LED 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 AC is available in wavelengths of 365/385/395/405 nm +/- 10 nm. This variety allows to adjust the wavelength to the application in question. Integrated air-cooling guarantees a reliable continuous operation over the whole ambient temperature area, without depending on huge external heat exchangers.

Special features

- The LED Powerline AC is electrically driven by a compact and efficient integrated module for top hat rail mounting or by the Hönlé table unit LED powerdrive.
- Driving and monitoring of a LED segment up to a max. electric power of 400 W (depending on wavelength)
- Monitoring of LED segments 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-failure, temperature warning)
- All modules BUS-controlled via RS485 and separate operation-display

Technical data

<table>
<thead>
<tr>
<th>LED service life</th>
<th>&gt; 20.000 hours *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irradiated area /</td>
<td>75 x 20 mm</td>
</tr>
<tr>
<td>output window:</td>
<td>other lengths on request</td>
</tr>
<tr>
<td>dimensions in mm:</td>
<td>110 x 57 x 170</td>
</tr>
<tr>
<td>max. length application</td>
<td>dependent</td>
</tr>
<tr>
<td>wavelengths in nm</td>
<td>365 385 395 405</td>
</tr>
<tr>
<td>typical intensity in mW/cm²**</td>
<td>4000 6000 8000 8000</td>
</tr>
<tr>
<td>Cooling</td>
<td>air cooling</td>
</tr>
</tbody>
</table>

* typical time for usage under standard environment conditions
** measured with Hönlé LED sensor 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.