The powerful LED floodlight for harsh operating conditions

Due to the particularly robust and solid design of the enclosure in combination with the vibration resistance of the LED module, the LPL LED floodlight is insensitive to impact, shocks, and vibrations. As a result, the LPL LED represents the ideal lighting concept for use in areas with difficult environmental conditions. Thanks to the LED technology, extreme temperatures from -36 °C up to +55 °C are not a problem. The rugged, flameproof light metal enclosure in the degree of protection IP 66 and the impact-resistant light output meets the highest corrosion protection and mechanical resistance requirements.

An efficient lighting technology

The LPL LED lighting series offers the latest lighting technology with a high luminous flux and, at the same time, an extremely low energy requirement. The LED modules provide a long service life combined with a high level of efficiency. With a power consumption of 53 W to 105 W, the LPL LED lighting series is ideal for replacing 70 W to 250 W light fittings with high pressure discharge lamps, whereby, the low energy consumption and the long service life (> 50,000 h) of the LED module keep operating costs pleasantly low.

Multiple applications

The LPL LED lighting series is suitable for medium and high suspension heights. It is the ideal solution for the illumination of open spaces, indoor areas and roads in industrial installations. Further applications include on- and offshore plants in the oil and gas industry, chemical plants, waste disposal facilities, shipyards, power stations and mills where extreme amounts of dirt and moisture and increased mechanical hazard are to be expected. A U-shaped mounting bracket for wall and ceiling installation of the LPL LED is included.

Features

- High-power LED modules with up to 63% energy saving
- Flameproof enclosure for Zones 1, 2, 21 and 22 and temperature class T6
- Wide temperature range from -36 °C to +55 °C
- CU-Certificate for Eurasian Economic Community available
- High degree of protection IP 66 for harsh environments
- Large Ex-e terminal compartment for ease of installation
## Ordering details

<table>
<thead>
<tr>
<th>Type</th>
<th>Content</th>
<th>Lamp / illuminant</th>
<th>rated luminous flux of the luminaire</th>
<th>Weight</th>
<th>Metal thread</th>
<th>Screw plug</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>LPL LED</td>
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<tr>
<td>LPL06-C57-5L</td>
<td>with mounting bracket</td>
<td>High power LED-module 53 W (scope of delivery)</td>
<td>5127 lm</td>
<td>17 kg</td>
<td>2 x M25</td>
<td>2 x M25</td>
<td>CCL 121 4001 AE</td>
</tr>
<tr>
<td>LPL06-C57-7L</td>
<td>with mounting bracket</td>
<td>High power LED-module 70 W (scope of delivery)</td>
<td>6998 lm</td>
<td>17 kg</td>
<td>2 x M25</td>
<td>2 x M25</td>
<td>CCL 121 4003 AE</td>
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<tr>
<td>LPL06-C57-9L</td>
<td>with mounting bracket</td>
<td>High power LED-module 87 W (scope of delivery)</td>
<td>8645 lm</td>
<td>17 kg</td>
<td>2 x M25</td>
<td>2 x M25</td>
<td>CCL 121 4004 AE</td>
</tr>
<tr>
<td>LPL06-C57-10L</td>
<td>with mounting bracket</td>
<td>High power LED-module 105 W (scope of delivery)</td>
<td>10272 lm</td>
<td>17 kg</td>
<td>2 x M25</td>
<td>2 x M25</td>
<td>CCL 121 4005 AE</td>
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## Accessories

<table>
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<tr>
<th>Type</th>
<th>Content</th>
<th>OU</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>PMB</td>
<td>Pole mounting bracket with fixing screws for use with mounting bracket</td>
<td>1</td>
<td>CCL 107 6003</td>
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</tbody>
</table>

Scope of delivery without fixing accessories, if not stated otherwise.
Metal cable glands see catalogue part 2: 2.3.12 f
Dimension drawing / Polar curve
LPL LED

Polar curve LPL06 LED

LPL 06 LED

Mounting bracket

Pole mounting bracket

Dimensions in mm
Technical data

LPL06 LED

EC-Type Examination Certificate
ITS 14 ATEX 18105X

IECEx Certificate of Conformity
IECEx UL 15.0077X

Marking accd. to 94/9/EC
Ex d IIC T6 Gb
Ex tb IIIC T80°C/T95 °C Db IP66

Marking accd. IECEx
Ex d e IIC T5/T6 Gb
Ex tb IIIC T80°C/T95 °C Db IP66

Permissible ambient temperature
-36 °C up to +55 °C / -36 °C up to +50 °C (LPL06-C57-10L)

Rated voltage
100 V - 277 V AC

Frequency
50 - 60 Hz

Fixture lifetime
50.000 h at t_{ref} = + 55 °C / 120.000 h at +25 °C

Power consumption
max. 105 W (see table luminaire data)

Power factor cos φ
≥ 0.9

Circuit
Electronic driver

Protection class
I

Lamp name
High power LED-module 1)

Light colour
5700 K cool white (CRI 70) / 3000 K (CRI 80) on request

Dimensions (L x W x H)
Ø 350 x 240 mm

Connecting terminals
3 x 0.5 mm² up to 4.0 mm², max 6.0 mm² single wire

Enclosure colour
Grey

Enclosure material
Copper free aluminium

Weight
17 kg

Cable glands / gland plates / enclosure drilling
2 x M25 x 1.5 thread,
1 x with Ex-e screw plug 2)

Type of mounting
Ceiling-/wall mounting

Degree of protection accd. to EN 60529
IP66

Protective cover / protective bowl
Toughened glass

1) Scope of delivery
2) M20 on request

Additional luminaire data

<table>
<thead>
<tr>
<th>Type</th>
<th>Rated luminous flux of the luminaire</th>
<th>Rated power</th>
<th>Permissible ambient temperature</th>
<th>Temperature Class T, Gas</th>
<th>Temperature Class T °C Dust</th>
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</thead>
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<tr>
<td>LPL06-C57-5L</td>
<td>5127 lm</td>
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<td>T6</td>
<td>T 80 °C</td>
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<tr>
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<td>10272 lm</td>
<td>105 W</td>
<td>-36 °C up to +50 °C</td>
<td>T5</td>
<td>T 95 °C</td>
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