Engineered for Best Fixture performance

Fulham LumoSeries drivers are all built on core engineering design principles for exceptional standards of performance and reliability in LED systems. Highest-grade critical components together with design features for thermal management ensure excellent reliability. Our low ripple designs create flicker-free lighting and perfectly smooth dimming. Simplicity of specification and installation is a key characteristic of all Fulham LumoSeries drivers. Hence the wide voltage and current ranges and industry-leading low inrush current.

Constant voltage driver with industry leading efficiency built to the highest standards.

Engineered for Performance

- Industry leading efficiency
- Excellent EMC behavior
- Very high power factor

Engineered for Reliability

- Low inrush current
- Thermal protection
- Short and open circuit protection, overload and overvoltage protection

Engineered for Simplicity.

- Easy plug and play operation, no additional setup required

Product features

- Low output current ripple (<10 %)
- Low inrush current
- High efficiency across a wide range of loads
- Power factor > 0.95
- Efficiency 90%
- SELV
- ENEC certified
- Engineered and Manufactured in Europe

Certificates and standards

- ENEC05, CE
- EN55015 / EN61000-3-2 / EN61347-2-13 / EN61347-1 / EN61547 / EN62384 / SELV

Classifications

5 year warranty

Fulham LumoSeries takes pride in the quality of its products. We not only develop all products in house, they are also produced to ensure guaranteed reliability and performance. Fulham LumoSeries drivers come with the assurance of a 5 year warranty. After all, with typical LED lifetimes of 50,000 hours, it is critical to have a power supply with equal reliability.
Specific technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Efficiency at full load</th>
<th>Output voltage</th>
<th>Output Current range</th>
<th>Open circuit output voltage</th>
<th>Max. output power</th>
<th>Dimming</th>
</tr>
</thead>
<tbody>
<tr>
<td>L05046</td>
<td>90%</td>
<td>24 Vdc</td>
<td>up to 1500 mA</td>
<td>25 Vdc</td>
<td>36 W</td>
<td>No</td>
</tr>
</tbody>
</table>

Technical data

- **Rated supply voltage**: 220-240 Vac
- **Input voltage**: 110-240 Vac / 150-375 Vdc*
- **Mains frequency**: 50/60 Hz
- **100 Hz ripple current**: <10%
- **Power factor at full load**: > 0.95
- **THD**: %
- **Startup time**: < 1 sec
- **Warm up time to 95% of light output**: < 2 sec
- **Output isolation**: SELV
- **Surge protection (diff. / comm.)**: 2 kV / 6 kV
- **IP classification**: IP 20
- **Circuit lifetime**: 50,000 hrs at Tc max.
- **Case dimensions**: 157 x 42 x 32 mm
- **Case material**: Polyamide 6 (PA6)

Inrush current

- **Mains max. peak inrush at full load**: 0.4 A

Maximum number of drivers on automatic circuit breakers

<table>
<thead>
<tr>
<th>Automatic circuit breaker type</th>
<th>C10</th>
<th>C13</th>
<th>C16</th>
<th>C20</th>
<th>B10</th>
<th>B13</th>
<th>B16</th>
<th>B20</th>
</tr>
</thead>
<tbody>
<tr>
<td>L05046</td>
<td>49</td>
<td>64</td>
<td>78</td>
<td>98</td>
<td>49</td>
<td>57</td>
<td>64</td>
<td>98</td>
</tr>
</tbody>
</table>

Thermal specifications

- **Ambient temperature range (Ta)**: -25 to 60°C
- **Maximum case temperature (Tc)**: <80°C
- **Storage temperature range**: -25 to 60°C
**Overload protection**

If the maximum output power is exceeded, the LED driver reduces the LED output current. After elimination of the overload the nominal operation is restored automatically.

**Over temperature protection**

The LED driver is protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

**LED load**

Fulham LumoSeries constant voltage LED drivers are designed to drive passive LEDs, COBs and LED assemblies. Proper function is not guaranteed when (LED)loads with active components are used.

**Short-circuit protection**

In case of a short circuit the LED driver switches to protection mode. After the removal of the short-circuit the LED driver will recover automatically.

**No-load operation**

In no-load operation the output voltage will not exceed the specified open circuit output voltage.

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**Wiring diagram**

![Wiring diagram](image)

**Wiring of device**

- **Solid**
  - Wire preparation: 0.2 – 1.5 mm²
  - 9.0 – 10.0 mm

- **Stranded**
  - Wire preparation: 0.2 – 1.5 mm²
  - 8.5 – 9.5 mm

**Strain relief**

The strain relief insert can be reversed or removed to accommodate wiring of various diameters.
## Ordering data

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Alternate part number</th>
<th>EAN code</th>
<th>Packaging carton</th>
<th>Multibox carton</th>
<th>Weight per piece</th>
</tr>
</thead>
<tbody>
<tr>
<td>L05046 Constant voltage LED Driver 36W, 24 Vdc</td>
<td>L05046</td>
<td>L1MLT024V-36E</td>
<td>8718801703458</td>
<td>50 pieces</td>
<td>150 pieces</td>
<td>165g</td>
</tr>
</tbody>
</table>