

TALEXdriver LCU EXC

12V / 24V Constant Voltage LED Driver



Letter standard



Letter mini



Lightbox standard



Lightbox slim



Light contour

Small dimensions

LED light sources come in an extremely wide range of shapes and sizes, providing a high degree of flexibility in both luminaire design and illuminated signage.

To take account of this flexibility in terms also of the LED Driver, designers focused on achieving small dimensions when developing the new constant-current LED Driver in the LCU EXC product series, without compromising on the traditional robustness and durability. The LED Driver in the LCU EXC series are setting new standards in compactness

___ [Great freedom of design and flexibility](#)



Complies with the European EMC standard for lighting

Electrical equipment such as luminaires and advertising panels must not produce interference that impairs the operation of other devices, and must function properly in a defined electromagnetic environment. Luminaires or advertising panels must therefore comply with the statutory EMC regulations in Europe, Australia and China.

The LCU LED Driver from Tridonic meet the requirements of the relevant EMC regulations, particularly EN 61000-3-2 Class C for luminaires, across the entire output load range. This means that the LED Driver meet the EMC requirements in every case, irrespective of how many LEDs are connected to the LED Driver and irrespective of the dimming value of the LEDs.

___ [Legal requirements in Europe, Australia and China](#)

5-year guarantee

Tridonic offers a 5-year guarantee for LCU LED Driver. Even at an increased ambient temperature of up to 50°C for outdoor types and up to 45°C for indoor types, LCU LED Driver have an expected lifetime of at least 50,000 hours. Please note that ambient temperature has a significant impact on the expected life-time of a LED Driver. For detailed information on life-time and ambient temperature please check the correspondent datasheet.

___ [Aspect of reliability or total operating costs](#)



TALEXdriver LCU
indoor IP20

High efficiency

To make luminaires and signage systems as efficient as possible, not only the LED light sources have to be efficient but also the LED Driver. With an efficiency of up to 92 % for the LCU EXC product series, these LED Driver provide the basis for optimum system efficiency.

___ [Energy savings](#)

Wide input voltage range of 90 to 305 VAC

Temperature range -40 to +70°C

Thanks to an input voltage range of 90 to 305 VAC, you can use the LED Driver in the LCU EXC series anywhere in the world. Even in very cold or very hot regions you will always have the right LED Driver if you choose an LCU EXC in type of protection IP67 which can be operated in ambient temperatures between -40 and +70°C.


___ [Universal use](#)



TALEXdriver LCU
outdoor IP67

▼ At a glance:

- Small, robust design
- 5-year guarantee / 50,000 hours of operation
- Wide LED Driver range:
IP20 / IP67; 12V DC / 24V DC; 15W–180W
- Wide input range:
90 to 305V AC 0/50/60Hz
- Temperature range:
IP67: –40 to +70°C
IP20: –25 to +70°C

| Technical property | | TALEXdriver LCU outdoor | | | | | TALEXdriver LCU indoor | | | |
|---|--------------|--|--------|--------|----------------------|--------------------------------|------------------------|-----|----------------------|----------------------|
| IP Protection | | IP67 | | | | | IP20 | | | |
| Available output voltage | | 12 VDC or 24 VDC | | | | | | | | |
| Guarantee | | 5 years | | | | | | | | |
| Lifetime | | 50,000 at t _a 50 °C | | | | 50,000 at t _a 45 °C | | | | |
| Rated input voltage ¹⁾ | | 90–305 V AC 0/50/60Hz | | | | | | | | |
| Output power at 12 VDC | | 15W | 35W | 60W | 100W | 180W | 35W | 60W | 100W | 180W |
| Output power at 24 VDC | | | | 60W | 96W | 180W | 35W | 60W | 96W | 180W |
| Output tolerance | | 12 V types: –0 % / +10 % 24 V types: –0 % / +5 % | | | | | | | | |
| Design | Height in mm | 21 | 21 | 21 | 23 (12V) 21 (24V) | 29 | 21 | 21 | 23 (12V) 21 (24V) | 31 (12V) 29 (24V) |
| | Width in mm | 40 | 40 | 40 | 40 | 60 | 40 | 40 | 44 (12V) 40 (24V) | 64 (12V) 60 (24V) |
| | Length in mm | 130 | 170 | 240 | 270 | 245 | 220 | 250 | 300 | 280 |
| Temperature range ¹⁾ | | –40 ... +70 °C | | | | | –25 ... +70 °C | | | |
| Storage temperature | | –40 ... +85 °C | | | | | | | | |
| Connection cable length | | 300 mm | 300 mm | 500 mm | 500 mm | 500 mm | | | | |
| SELV | | yes | | | | | | | | |
| EMC compliant | | yes / EN 61000-3-2 CLASS C full load range | | | | | | | | |
| Emergency compliant EN 50172 / DC input | | yes | | | | | | | | |
| Protection CLASS | | Class II  | | | | | | | | |
| Short circuit / overload / overtemp. protection | | yes | | | | | | | | |
| NEC Class 2 | | yes | yes | yes | yes ²⁾ | no | yes | yes | yes ²⁾ | no |
| Certificates | | CCC ³⁾ , CE, CSA, EL, ENEC, RCM, UL | | | | | | | | |
| Housing material | | metal | | | | | plastic | | | |

¹⁾ Detailed information and data you can find the correspondent datasheet on www.tridonic.com

²⁾ 24V DC types only

³⁾ IP20 types only

12V DC

| Type (Protection class IP67) | Order No. | U _{out} | P _{out} |
|------------------------------|-----------|------------------|------------------|
| LCU 180W 12V IP67 EXC | 28000511 | 12VDC | 18–180W |
| LCU 100W 12V IP67 EXC | 28000510 | 12VDC | 10–100W |
| LCU 60W 12V IP67 EXC | 28000509 | 12VDC | 6–60W |
| LCU 35W 12V IP67 EXC | 28000508 | 12VDC | 4–35W |
| LCU 15W 12V IP67 EXC | 28000507 | 12VDC | 2–15W |

| Type (Protection class IP20) | Order No. | U _{out} | P _{out} |
|------------------------------|-----------|------------------|------------------|
| LCU 180W 12V SR EXC | 28000409 | 12VDC | 18–180W |
| LCU 100W 12V SR EXC | 28000408 | 12VDC | 10–100W |
| LCU 60W 12V SR EXC | 28000407 | 12VDC | 6–60W |
| LCU 35W 12V SR EXC | 28000406 | 12VDC | 4–35W |

24V DC

| Type (Protection class IP67) | Order No. | U _{out} | P _{out} |
|------------------------------|-----------|------------------|------------------|
| LCU 180W 24V IP67 EXC | 28000514 | 24VDC | 18–180W |
| LCU 100W 24V IP67 EXC | 28000513 | 24VDC | 10–100W |
| LCU 60W 24V IP67 EXC | 28000512 | 24VDC | 6–60W |

| Type (Protection class IP20) | Order No. | U _{out} | P _{out} |
|------------------------------|-----------|------------------|------------------|
| LCU 180W 24V SR EXC | 28000414 | 24VDC | 18–180W |
| LCU 96W 24V SR EXC | 28000413 | 24VDC | 10–96W |
| LCU 60W 24V SR EXC | 28000412 | 24VDC | 6–60W |
| LCU 35W 24V SR EXC | 28000411 | 24VDC | 4–35W |

Support and advice from a single source

We will help you to create messages out of light that are unbeatable in terms of economy and functionality.



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Light you want to follow.

