

TALEXconverter LCU TOP

# 12V / 24V Constant Voltage LED Converter



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 converters, designers focused on achieving small dimensions when developing the new constant-current converters in the LCU TOP product series, without compromising on the traditional robustness and durability. The converters in the LCU TOP 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 converters 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 converters meet the EMC requirements in every case, irrespective of how many LEDs are connected to the converter and irrespective of the dimming value of the LEDs.

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

## 5 year warranty

Tridonic offers a 5 year warranty for LCU converters. Even at an increased ambient temperature of up to 50°C for outdoor types and up to 45°C for indoor types, LCU converters 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 converter. For detailed information on life-time and ambient temperature please check the correspondent datasheet.

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



TALEXconverter 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 converters. With an efficiency of up to 92 % for the LCU TOP product series, these converters 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 converters in the LCU TOP series anywhere in the world. Even in very cold or very hot regions you will always have the right converter if you choose an LCU TOP in type of protection IP67 which can be operated in ambient temperatures between -40 and +70°C.

\_\_ [Universal use](#)



TALEXconverter LCU  
outdoor IP67

### ▼ At a glance:

- Small, robust design
- 5 year warranty / 50,000 hours of operation
- Wide converter range:  
IP 20 / IP 67; 12 V DC / 24 V DC; 15 W–180 W
- Wide input range:  
90 to 305 VAC 0/50/60 Hz
- Temperature range:  
IP 67: –40 to +70°C  
IP 20: –25 to +70°C

Technical property	TALEXconverter LCU outdoor					TALEXconverter LCU indoor					
IP Protection	IP 67					IP 20					
Available output voltage	12VDC or 24VDC										
Warranty	5 years										
Lifetime	50,000 at t <sub>a</sub> 50°C					50,000 at t <sub>a</sub> 45°C					
Rated input voltage <sup>1)</sup>	90–305V AC 0/50/60Hz										
Output power at 12VDC	15W	35W	60W	100W	180W	15W	35W	60W	100W	180W	
Output power at 24VDC			60W	96W	180W	15W	35W	60W	96W	180W	
Output tolerance	12V types: –0% / +10% 24V types: –0% / +5%										
Design	Height in mm	21	21	21	23 (12V) 21 (24V)	29	21	21	21	23 (12V) 21 (24V)	31 (12V) 29 (24V)
	Width in mm	40	40	40	40	60	40	40	40	44 (12V) 40 (24V)	64 (12V) 60 (24V)
	Length in mm	130	170	240	270	245	170	220	250	300	280
Temperature range <sup>1)</sup>	–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	Klasse II										
Short circuit / overload / overtemp. protection	yes										
NEC Class 2	yes	yes	yes	yes <sup>2)</sup>	no	yes	yes	yes	yes <sup>2)</sup>	no	
Certificates	CCC <sup>3)</sup> , CE, CSA, EL, ENEC, RCM, UL										
Housing material	metal					plastic					
Available	12V: 04/2015	12V: 04/2015	12V: available 24V: 04/2015	12V: 01/2015 24V: 04/2015	12V: 04/2015 24V: 04/2015	04/2015					

<sup>1)</sup> Detailed information and data you can find the correspondent datasheet on [www.tridonic.com](http://www.tridonic.com)

<sup>2)</sup> 24 V DC types only

<sup>3)</sup> IP20 types only

# TALEXconverter LCU

## 12V DC

Type (Protection class IP67)	Order No.	U <sub>out</sub>	P <sub>out</sub>
TALEXconverter LCU 180W 12V IP67 TOP	28000511	12VDC	18–180W
TALEXconverter LCU 100W 12V IP67 TOP	28000510	12VDC	10–100W
TALEXconverter LCU 60W 12V IP67 TOP	28000509	12VDC	6–60W
TALEXconverter LCU 35W 12V IP67 TOP	28000508	12VDC	4–35W
TALEXconverter LCU 15W 12V IP67 TOP	28000507	12VDC	2–15W

Type (Protection class IP20)	Order No.	U <sub>out</sub>	P <sub>out</sub>
TALEXconverter LCU 180W 12V SR TOP	28000409	12VDC	18–180W
TALEXconverter LCU 100W 12V SR TOP	28000408	12VDC	10–100W
TALEXconverter LCU 60W 12V SR TOP	28000407	12VDC	6–60W
TALEXconverter LCU 35W 12V SR TOP	28000406	12VDC	4–35W
TALEXconverter LCU 15W 12V SR TOP	28000405	12VDC	2–15W

## 24V DC

Type (Protection class IP67)	Order No.	U <sub>out</sub>	P <sub>out</sub>
TALEXconverter LCU 180W 24V IP67 TOP	28000514	24VDC	18–180W
TALEXconverter LCU 100W 24V IP67 TOP	28000513	24VDC	10–100W
TALEXconverter LCU 60W 24V IP67 TOP	28000512	24VDC	6–60W

Type (Protection class IP20)	Order No.	U <sub>out</sub>	P <sub>out</sub>
TALEXconverter LCU 180W 24V SR TOP	28000414	24VDC	18–180W
TALEXconverter LCU 96W 24V SR TOP	28000413	24VDC	10–96W
TALEXconverter LCU 60W 24V SR TOP	28000412	24VDC	6–60W
TALEXconverter LCU 35W 24V SR TOP	28000411	24VDC	4–35W
TALEXconverter LCU 15W 24V SR TOP	28000410	24VDC	2–15W

### 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.



#### Headquarters

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#### Light you want to follow.

