

Driver LCU 100/96W 12/24V IP20 EXC

excite indoor IP20 series

**Product description**

- _ Constant voltage LED Driver
- _ Universal input voltage range
- _ Constant output voltage
- _ Push terminals for simple wiring
- _ Nominal life-time up to 50,000 h (at t_a 45 °C with a failure rate $\leq$ 0.2 % per 1,000 h)
- _ 5-year guarantee
- _ Suitable for emergency escape lighting systems acc. to EN 50172
- _ Complies with CLASS C from minimum to maximum load range according to EN 61000-3-2

Properties

- _ Small design
- _ High efficiency
- _ Low power loss
- _ Overtemperature and overload protection
- _ Short-circuit shutdown feature with automatic restart
- _ Protection class II, SELV
- _ Type of protection IP20
- _ Plastic casing white

Website
<http://www.tridonic.com/28000413>


Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



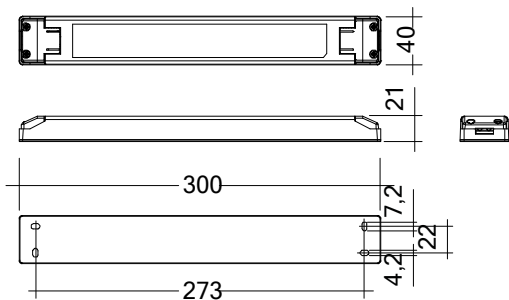
Decorative



High bay

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The complete data sheet for this product is available in the Downloads section.



Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
LCU 96W 24V TOP SR	28000413	20 pc(s).	1,000 pc(s).	0.34 kg

Technical data

Rated supply voltage	120 – 277 V
AC voltage range	108 – 305 V
DC voltage range	176 – 288 V
Rated current 12 V (at 120 V, 60 Hz, full load)	0.98 A
Rated current 12 V (at 230 V, 50 Hz, full load)	0.51 A
Rated current 12 V (at 277 V, 60 Hz, full load)	0.43 A
Rated current 24 V (at 120 V, 60 Hz, full load)	0.92 A
Rated current 24 V (at 230 V, 50 Hz, full load)	0.49 A
Rated current 24 V (at 277 V, 60 Hz, full load)	0.4 A
Mains frequency	0 / 50 / 60 Hz
Efficiency 12 V (at 120 V, 60 Hz, full load)	> 88 %
Efficiency 12 V (at 230 V, 50 Hz, full load)	> 90 %
Efficiency 12 V (at 277 V, 60 Hz, full load)	> 91 %
Efficiency 24 V (at 120 V, 60 Hz, full load)	> 88 %
Efficiency 24 V (at 230 V, 50 Hz, full load)	> 90 %
Efficiency 24 V (at 277 V, 60 Hz, full load)	> 91 %
λ 12 V (at 120 V, 60 Hz, full load)	0.99C
λ 12 V (at 230 V, 50 Hz, full load)	0.95C
λ 12 V (at 277 V, 60 Hz, full load)	0.95C
λ 24 V (at 120 V, 60 Hz, full load)	0.99C
λ 24 V (at 230 V, 50 Hz, full load)	0.95C
λ 24 V (at 277 V, 60 Hz, full load)	0.95C
Max. input power in no-load operation	0.5 W
Output voltage tolerance 12 V	-0 / +10 %
Output voltage tolerance 24 V	-0 / +5 %
Output power 12 V ($t_a \leq 60^\circ\text{C}$)	100 W
Output power 12 V ($t_a > 60^\circ\text{C}$)	70 W
Output power 24 V ($t_a \leq 50^\circ\text{C}$)	96 W
Output power 24 V ($t_a > 50^\circ\text{C}$)	67 W
Output power range 12 V	10 – 100 W
Output power range 24 V	10 – 96 W
Starting time (output)	≤ 0.5 s
Turn off time (output)	≤ 1 s
Hold on time at power failure (output)	10 ms
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	1 kV
Surge voltage at output side (against PE)	< 500 V
Ambient temperature t_a (12 V)	-25 ... +70 °C
Ambient temperature t_a (24 V)	-25 ... +60 °C
Ambient temperature t_a (at life-time 50,000 h) ^①	-25 ... +45 °C
Storage temperature t_s	-40 ... +85 °C
Dimensions L x W x H for 12 V	300 x 44 x 23 mm
Dimensions L x W x H for 24 V	300 x 40 x 21 mm
Hole spacing D	273 mm

Approval marks**Standards**

EN 55015, EN 60598-1, EN 60598-2-22, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, EN 62493

Specific technical data

Type	Max. casing temperature t_c	Output voltage	Max. input power	Output current range
LCU 96W 24V TOP SR	85 °C	24 V	117 W	0.40 – 4.00 A

^① For input voltage from 120 to 277 V AC (50 / 60 Hz) with 100 % load. For input voltage from 100 to 120 V AC (50 / 60 Hz) with 80 % load.