

Driver LCA 100W 1100–2100mA one4all SR PRE
premium series

**Product description**

- _ Independent dimmable LED Driver
- _ Dimmable via DALI / DALI-2
- _ Dimming range 1 – 100 % (whole operating window)
- _ Adjustable output current between 1,100 and 2,100 mA via ready2mains Programmer, I-select 2 plugs or DALI
- _ Max. output power 100 W
- _ Up to 92 % efficiency
- _ Power input on stand-by < 0.2 W
- _ Nominal life-time up to 100,000 h
- _ 5-year guarantee

Housing properties

- _ Casing: polycarbonate, white
- _ Type of protection IP20
- _ Strain relief with loop through function

Interfaces

- _ one4all (DALI-2 DT 6, DSI, switchDIM, corridorFUNCTION)
- _ ready2mains (configuration and dimming via mains)
- _ Terminal blocks: 0° / 45° push terminals (input / output)

Functions

- _ Adjustable output current (DALI, ready2mains, I-select 2)
- _ Constant light output function (CLO)
- _ Power-up fading at AC
- _ Configurable via ready2mains
- _ Service monitor to log certain events
- _ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range, reduced surge amplification)
- _ Suitable for emergency escape lighting systems acc. to EN 50172
- _ For cable cross-sections up to 2.5 mm²

Benefits

- _ Application-oriented operating window for maximum compatibility
- _ Best energy savings due to low stand-by losses and high efficiency
- _ Flexible configuration via DALI, ready2mains and I-select 2
- _ No tools required for installation

Typical applications

- _ For applications in downlight, panel and low Bay / high Bay luminaires

Website

<http://www.tridonic.com/28001571>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



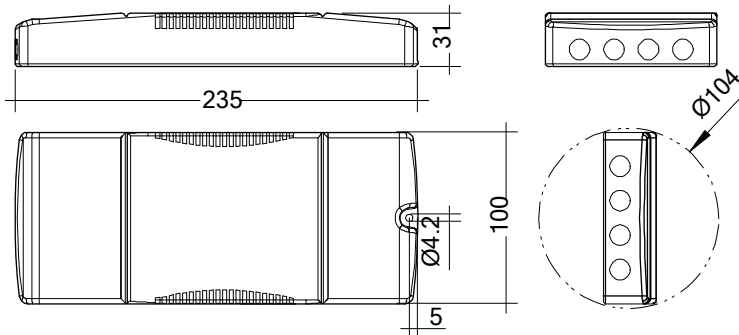
Decorative



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.
LCA 100W 1100-2100mA one4all SR PRE	28001571	10 pc(s).	300 pc(s).	0.378 kg

Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 48 h
Typ. current (at 230 V, 50 Hz, full load) ①②	295 – 479 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ②	55 – 78 mA
Leakage current (at 230 V, 50 Hz, full load) ①②	< 700 µA
Max. input power	110 W
Typ. efficiency (at 230 V, 50 Hz, full load) ②	92 %
λ (at 230 V, 50 Hz, full load)	0.98C
Typ. power input on stand-by ③	< 0.2 W
Typ. input current in no-load operation	48 mA
Typ. input power in no-load operation	0.4 W
In-rush current (peak / duration)	50 A / 209 µs
THD (at 230 V, 50 Hz, full load) ①	< 10 %
Starting time (at 230 V, 50 Hz, full load) ①	< 0.7 s
Starting time (DC mode)	< 0.4 s
Switchover time (AC/DC)	< 0.4 s
Turn off time (at 230 V, 50 Hz, full load)	< 30 ms
Output current tolerance ①④	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
Output LF current ripple (< 120 Hz)	± 3 %
Max. output voltage (U-OUT)	60 V
Dimming range	1 – 100 %
Mains surge capability (between L - N)	2 kV
Mains surge capability (between L/N - PE)	4 kV
Surge voltage at output side (against PE)	< 500 V
Type of protection	IP20
Dimensions L x W x H	235 x 100 x 31 mm

Approval marks



Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, EN 62386-101 (DALI-2), EN 62386-102 (DALI-2), EN 62386-207 (DALI-2),
Acc. to EN 50172, Acc. to EN 60598-2-22

Specific technical data

Type	Output ^{②③} current	Min. forward voltage	Max. forward voltage	Max. output power	Typ. power consumption (at 230 V, 50 Hz, full load)	Typ. current consumption (at 230 V, 50 Hz, full load)	tc point max.	Ambient temperature ta	I-select 2 resistor ^⑤ value
LCA 100W 1100-2100mA one4all SR PRE	1,100 mA	20 V	54.0 V	59.4 W	65.5 W	295 mA	70 °C	-25 ... +50 °C	-
LCA 100W 1100-2100mA one4all SR PRE	1,200 mA	20 V	54.0 V	64.8 W	71.3 W	319 mA	70 °C	-25 ... +50 °C	4.17 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,300 mA	20 V	54.0 V	70.2 W	76.9 W	343 mA	75 °C	-25 ... +50 °C	3.85 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,400 mA	20 V	54.0 V	75.6 W	82.4 W	366 mA	75 °C	-25 ... +50 °C	3.57 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,500 mA	20 V	54.0 V	81.0 W	88.8 W	393 mA	75 °C	-25 ... +50 °C	3.33 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,600 mA	20 V	54.0 V	86.4 W	94.4 W	418 mA	75 °C	-25 ... +50 °C	3.13 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,700 mA	20 V	54.0 V	91.8 W	99.8 W	441 mA	80 °C	-25 ... +50 °C	2.94 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,800 mA	20 V	54.0 V	97.2 W	105.9 W	466 mA	80 °C	-25 ... +50 °C	2.78 kΩ
LCA 100W 1100-2100mA one4all SR PRE	1,900 mA	20 V	52.6 V	99.9 W	107.0 W	472 mA	80 °C	-25 ... +50 °C	2.63 kΩ
LCA 100W 1100-2100mA one4all SR PRE	2,000 mA	20 V	50.0 V	100.0 W	108.8 W	479 mA	80 °C	-25 ... +50 °C	2.50 kΩ
LCA 100W 1100-2100mA one4all SR PRE	2,100 mA	20 V	47.6 V	100.0 W	108.6 W	479 mA	80 °C	-25 ... +50 °C	0.00 kΩ

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Depending on the DALI traffic at the interface.

④ Output current is mean value.

⑤ The table only lists a number of possible operating points but does not cover each single point. The output current can be set within the total value range in 1-mA-steps.

⑥ Not compatible with I-select (generation 1).