

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



Product description

- _ Dimmable built-in LED Driver
- _ Dimming range 1 to 100 %
- _ For luminaires of protection class I and protection class II
- _ 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

Interfaces

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

Functions

- _ Adjustable output current in 1-mA-steps (DALI, ready2mains, I-SELECT 2)
- _ Constant light output function (CLO)
- _ Power-up fading at AC
- _ Configurable via ready2mains
- _ Switch off the Driver with fade2zero
- _ Service monitor to log certain events
- _ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range, reduced surge amplification)
- _ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
- _ Suitable for emergency escape lighting systems acc. to EN 50172

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
- _ Reliability proven by life-time up to 100,000 h and 5-year guarantee

Typical applications

- _ For linear/area lighting in office applications

Website

<http://www.tridonic.com/28001570>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

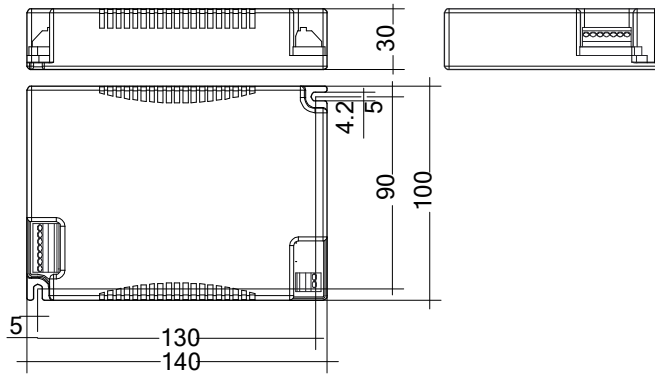


High bay

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premium series

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 C PRE	28001570	10 pc(s).	500 pc(s).	0.29 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 μ A
Max. input power	110 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	92 %
λ (at 230 V, 50 Hz, full load)	0.98
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 μ s
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) ^④	< 0.4 s
Turn off time (at 230 V, 50 Hz, full load)	< 30 ms
Output current tolerance ^{①⑤}	\pm 3 %
Max. output current peak (non-repetitive)	\leq output current + 40 %
Output LF current ripple (< 120 Hz)	\pm 3 %
Output P_ST_LM (at full load)	\leq 1
Output SVM (at full load)	\leq 0.4
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
Life-time	up to 100,000 h
Dimensions L x W x H	140 x 100 x 30 mm

Approval marks**Standards**

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 current ^⑥	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 t_a	I-SELECT 2 resistor value
LCA 100W 1100-2100mA one4all C PRE	1,100 mA	20 V	54.0 V	59.4 W	65.5 W	295 mA	75 °C	-25 ... +55 °C	-
LCA 100W 1100-2100mA one4all C PRE	1,200 mA	20 V	54.0 V	64.8 W	71.3 W	319 mA	75 °C	-25 ... +55 °C	4.17 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,300 mA	20 V	54.0 V	70.2 W	76.9 W	343 mA	80 °C	-25 ... +55 °C	3.85 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,400 mA	20 V	54.0 V	75.6 W	82.4 W	366 mA	80 °C	-25 ... +55 °C	3.57 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,500 mA	20 V	54.0 V	81.0 W	88.8 W	393 mA	80 °C	-25 ... +55 °C	3.33 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,600 mA	20 V	54.0 V	86.4 W	94.4 W	418 mA	80 °C	-25 ... +55 °C	3.13 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,700 mA	20 V	54.0 V	91.8 W	99.8 W	441 mA	85 °C	-25 ... +55 °C	2.94 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,800 mA	20 V	54.0 V	97.2 W	105.9 W	466 mA	85 °C	-25 ... +55 °C	2.78 k Ω
LCA 100W 1100-2100mA one4all C PRE	1,900 mA	20 V	52.6 V	99.9 W	107.0 W	472 mA	85 °C	-25 ... +55 °C	2.63 k Ω
LCA 100W 1100-2100mA one4all C PRE	2,000 mA	20 V	50.0 V	100.0 W	108.8 W	479 mA	85 °C	-25 ... +55 °C	2.50 k Ω
LCA 100W 1100-2100mA one4all C PRE	2,100 mA	20 V	47.6 V	100.0 W	108.6 W	479 mA	85 °C	-25 ... +55 °C	0.00 k Ω

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Depending on the DALI traffic at the interface.

④ Valid for immediate change of power supply type otherwise the starting time is valid.

⑤ Output current is mean value.

⑥ 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.

⑦ Not compatible with I-SELECT (generation 1). Calculated resistor value.