

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



Product description

- _ NEW: lumDATA (DALI-2 part ext. 251, 252 and 253)
- _ Dimmable built-in constant current 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 lifetime up to 100,000 h
- _ 5 years 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)
- _ Fulfills DALI-2 parts: 251 (Luminaire data), 252 (Energy reporting) and 253 (Diagnostics & Maintenance)
- _ 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)
- _ 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 lifetime up to 100,000 h and 5 years 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

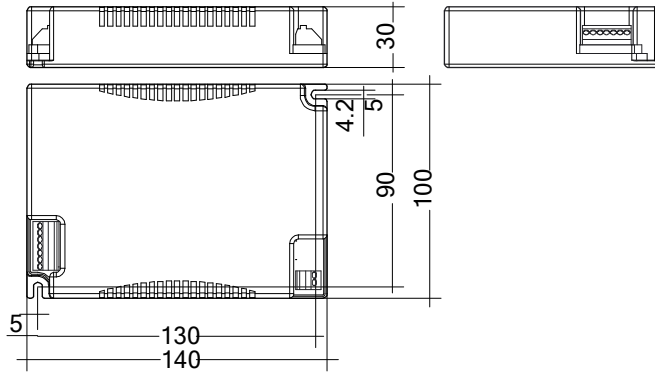


High bay

Driver LCA 100W 1100–2100mA one4all C PRE

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 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)	0.98
Typ. power consumption 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) ^④	< 0.4 s
Turn off time (at 230 V, 50 Hz, full load)	< 30 ms
Output current tolerance ^⑤	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
Output LF current ripple (< 120 Hz)	± 3 %
Output P_ST_LM (at full load)	≤ 1
Output SVM (at full load)	≤ 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)	< 0.5 kV
Type of protection	IP20
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
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), according to EN 50172, according 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)	T _c point max.	Ambient temperature T _a	I-SELECT 2 resistor value ^⑦
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 kΩ
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 kΩ
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 kΩ
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 kΩ
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 kΩ
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 kΩ
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 kΩ
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 kΩ
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 kΩ
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 kΩ

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.