

Driver LCA 17W 250–700mA 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
- _ Output current adjustable between 250 – 700 mA via ready2mains Programmer, I-SELECT 2 plugs or DALI
- _ Max. output power 17 W
- _ Up to 86 % 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 spot light and downlight in retail and hospitality applications

Website

<http://www.tridonic.com/28000664>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

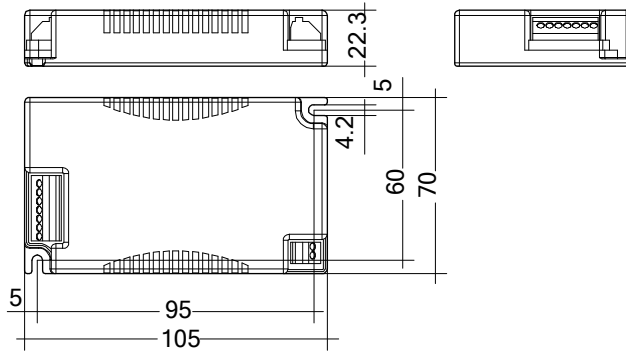


High bay

Driver LCA 17W 250–700mA 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 17W 250-700mA one4all C PRE	28000664	10 pc(s).	1,120 pc(s).	0.134 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}	65 – 95 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	15 – 25 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 700 μ A
Max. input power	22.5 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	86 %
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	12 mA
Typ. input power in no-load operation	0.4 W
In-rush current (peak / duration)	20 A / 133 μ s
THD (at 230 V, 50 Hz, full load) ^①	< 8 %
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	\pm 3 %
Max. output current peak (non-repetitive)	\leq output current + 40 %
Output LF current ripple (< 120 Hz)	\pm 5 %
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)	1 kV
Mains surge capability (between L/N - PE)	2 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	105 x 70 x 22 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), according to EN 50172, according to EN 60598-2-22

Specific technical data

Type	Output current ^⑥	Min. output voltage	Max. output 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 value
LCA 17W 250-700mA one4all C PRE	250 mA	15 V	50 V	12.5 W	15.6 W	73 mA	85 °C	-25 ... +60 °C	-
LCA 17W 250-700mA one4all C PRE	300 mA	15 V	50 V	15.0 W	18.5 W	83 mA	85 °C	-25 ... +60 °C	16.67 k Ω
LCA 17W 250-700mA one4all C PRE	350 mA	15 V	50 V	17.0 W	20.5 W	92 mA	85 °C	-25 ... +60 °C	14.29 k Ω
LCA 17W 250-700mA one4all C PRE	400 mA	15 V	43 V	17.0 W	20.5 W	92 mA	80 °C	-25 ... +60 °C	12.50 k Ω
LCA 17W 250-700mA one4all C PRE	450 mA	15 V	38 V	17.0 W	20.5 W	92 mA	80 °C	-25 ... +60 °C	11.11 k Ω
LCA 17W 250-700mA one4all C PRE	500 mA	15 V	34 V	17.0 W	19.8 W	90 mA	75 °C	-25 ... +60 °C	10.00 k Ω
LCA 17W 250-700mA one4all C PRE	550 mA	15 V	31 V	17.0 W	19.8 W	90 mA	75 °C	-25 ... +60 °C	9.09 k Ω
LCA 17W 250-700mA one4all C PRE	600 mA	15 V	28 V	17.0 W	19.8 W	90 mA	75 °C	-25 ... +60 °C	8.33 k Ω
LCA 17W 250-700mA one4all C PRE	650 mA	15 V	26 V	17.0 W	20.3 W	91 mA	75 °C	-25 ... +60 °C	7.69 k Ω
LCA 17W 250-700mA one4all C PRE	700 mA	15 V	24 V	17.0 W	20.3 W	91 mA	75 °C	-25 ... +60 °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.