

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

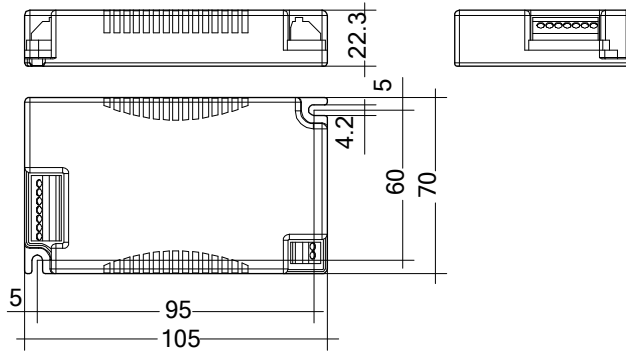


High bay

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. forward voltage	Max. forward voltage	Max. output power	Typ. power consumption n (at 230 V, 50 Hz, full load)	Typ. current consumption n (at 230 V, 50 Hz, full load)	tc point max	Ambient temperature t_a	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.