

**Driver LCA 30W 250–700mA one4all C PRE OTD**

PREMIUM outdoor series

**Product description**

- \_ Dimmable built-in constant current LED Driver
- \_ Output current adjustable between 250 – 700 mA via ready2mains Programmer, I-select 2 plugs or DALI
- \_ Max. output power 30 W
- \_ Power input on stand-by < 0.16 W
- \_ Dimming range 10 to 100 %
- \_ Nominal life-time up to 100,000 h
- \_ 5-year guarantee

**Housing properties**

- \_ Compact plastic casing
- \_ Type of protection IP20

**Interfaces**

- \_ one4all (DALI DT 6, DSI, switchDIM, corridorFUNCTION V2)
- \_ ready2mains (configuration and dimming via mains)
- \_ U6Me2 (configuration of chronoSTEP 2 via mains)
- \_ Terminal blocks: 45° / 0° push terminals

**Functions**

- \_ Adjustable output current (DALI, ready2mains, I-select 2)
- \_ Programmable chronoSTEP: times and levels (DALI, U6Me2, ready2mains)
- \_ Constant light output function (CLO)
- \_ Configurable via ready2mains
- \_ Low-temperature start feature (-40 to +70 °C temperature range)
- \_ 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
- \_ Reliability proven by life-time up to 100,000 h and 5-year guarantee
- \_ Flexible configuration via DALI, ready2mains, U6Me2 and I-select 2
- \_ In-field programming possible after installation
- \_ High overvoltage protection: up to 10 kV asymmetric (protection class I and II)

**Typical applications**

- \_ Road, street and industry
- \_ For luminaires of protection class I and protection class II

**Website**

<http://www.tridonic.com/28001070>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

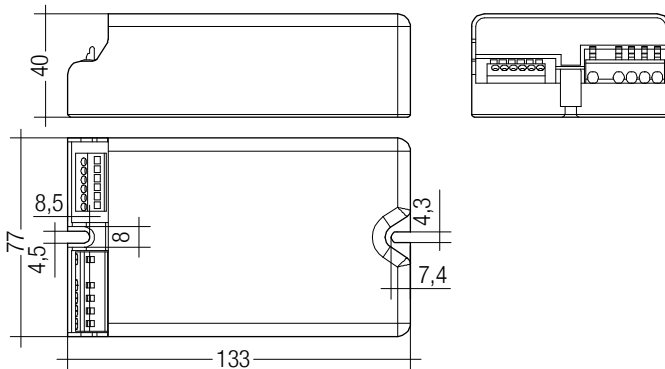


High bay

## Driver LCA 30W 250–700mA one4all C PRE OTD

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The complete data sheet for this product is available in the Downloads section.



## Ordering data

Type	Article number <sup>②</sup>	Packaging, carton	Packaging, pallet	Packaging, high volume	Weight per pc.
LCA 30W 250-700mA one4all C PRE OTD	28001070	10 pc(s).	390 pc(s).	–	0.545 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) <sup>①②</sup>	106 – 154 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) <sup>②</sup>	28 – 54 mA
Leakage current (at 230 V, 50 Hz, full load) <sup>①②</sup>	< 340 A
Max. input power	35 W
Typ. efficiency (at 230 V, 50 Hz, full load) <sup>②</sup>	90 %
$\lambda$ (at 230 V, 50 Hz, full load) <sup>①</sup>	0.97
Typ. power input on stand-by <sup>③</sup>	< 0.16 W
In-rush current (peak / duration)	36 A / 195 s
THD (at 230 V, 50 Hz, full load) <sup>①</sup>	< 7.4 %
Time to light (at 230 V, 50 Hz, full load) <sup>①</sup>	< 700 ms
Time to light (DC mode)	< 450 ms
Switchover time (AC/DC)	< 150 ms
Turn off time (at 230 V, 50 Hz, full load)	< 20 ms
Output current tolerance <sup>①④</sup>	± 3 %
Max. output current peak (non-repetitive)	± output current + 40 %
Output LF current ripple (< 120 Hz)	± 5 %
Max. output voltage	120 V
Dimming range	10 – 100 %
Mains surge capability (between L - N) <sup>⑤</sup>	6 kV / 3,000 A
Mains surge capability (between L/N - PE)	6 kV
Mains surge capability up to (between L/N - PE) without DALI connection	10 kV
Burst protection <sup>⑥</sup>	6 kV
Surge voltage at output side (against PE)	< 500 V
Dimensions L x W x H	133 x 77 x 40 mm

## Approval marks



## Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61000-4-4, EN 61000-4-5, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, EN 62386-101, EN 62386-102, EN 62386-207, Acc. to EN 50172, Acc. to EN 60598-2-22

## Specific technical data

Type	Output current <sup>①</sup>	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 value <sup>⑧</sup>
LCA 30W 250-700mA one4all C PRE OTD	250 mA	25 V	75 V	18.8 W	23.8 W	110 mA	80 °C	-40 ... +70 °C	-
LCA 30W 250-700mA one4all C PRE OTD	300 mA	25 V	75 V	22.5 W	27.4 W	125 mA	80 °C	-40 ... +70 °C	16.67 kΩ
LCA 30W 250-700mA one4all C PRE OTD	350 mA	25 V	75 V	26.3 W	31.4 W	142 mA	80 °C	-40 ... +70 °C	14.29 kΩ
LCA 30W 250-700mA one4all C PRE OTD	400 mA	25 V	75 V	30.0 W	35.0 W	158 mA	80 °C	-40 ... +70 °C	12.50 kΩ
LCA 30W 250-700mA one4all C PRE OTD	450 mA	25 V	67 V	30.0 W	34.9 W	156 mA	80 °C	-40 ... +70 °C	11.11 kΩ
LCA 30W 250-700mA one4all C PRE OTD	500 mA	25 V	60 V	30.0 W	34.5 W	154 mA	80 °C	-40 ... +70 °C	10.00 kΩ
LCA 30W 250-700mA one4all C PRE OTD	550 mA	25 V	55 V	30.0 W	34.5 W	154 mA	80 °C	-40 ... +70 °C	9.09 kΩ
LCA 30W 250-700mA one4all C PRE OTD	600 mA	25 V	50 V	30.0 W	33.8 W	152 mA	80 °C	-40 ... +70 °C	8.33 kΩ
LCA 30W 250-700mA one4all C PRE OTD	650 mA	25 V	46 V	29.9 W	34.0 W	153 mA	80 °C	-40 ... +70 °C	7.69 kΩ
LCA 30W 250-700mA one4all C PRE OTD	700 mA	25 V	43 V	30.0 W	34.2 W	154 mA	80 °C	-40 ... +70 °C	7.14 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 L-N acc. to EN 61000-4-5. 2 Ohm, 1/2/50 s, 8/20 s.

⑥ Also applies to corridorFUNCTION.

⑦ Article number 28001070: Made in Europe, article number 87500662: Made in China.

⑧ Not compatible with I-select (generation 1).