

Driver LCA 75W 250–750mA one4all C PRE OTD

PREMIUM outdoor series

**Product description**

- _ Dimmable built-in constant current LED Driver
- _ Output current adjustable between 250 – 750 mA via ready2mains Programmer, I-select 2 plugs or DALI
- _ Max. output power 75 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/28001072>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

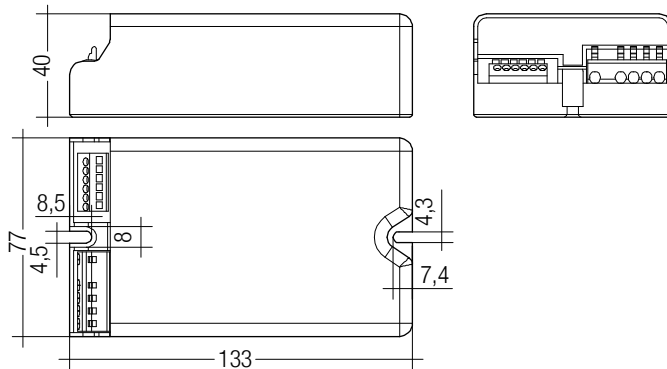


High bay

Driver LCA 75W 250–750mA 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 ^②	Packaging, carton	Packaging, pallet	Packaging, high volume	Weight per pc.
LCA 75W 250-750mA one4all C PRE OTD	28001072	10 pc(s).	390 pc(s).	–	0.588 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}	177 – 363 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	50 – 78 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 300 A
Max. input power	81.9 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	93 %
λ (at 230 V, 50 Hz, full load) ^①	0.99
Typ. power input on stand-by ^③	< 0.16 W
In-rush current (peak / duration)	37 A / 235 s
THD (at 230 V, 50 Hz, full load) ^①	< 5 %
Time to light (at 230 V, 50 Hz, full load) ^①	< 280 ms
Time to light (DC mode)	< 280 ms
Switchover time (AC/DC)	< 150 ms
Turn off time (at 230 V, 50 Hz, full load)	< 20 ms
Output current tolerance ^{①④}	± 3 %
Max. output current peak (non-repetitive)	± output current + 40 %
Output LF current ripple (< 120 Hz)	± 5 %
Max. output voltage	250 V
Dimming range	10 – 100 %
Mains surge capability (between L - N) ^⑤	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 ^⑥	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 ^④	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 ^⑧
LCA 75W 250-750mA one4all C PRE OTD	250 mA	45 V	130 V	32.5 W	39.3 W	177 mA	85 °C	-40 ... +65 °C	-
LCA 75W 250-750mA one4all C PRE OTD	275 mA	45 V	130 V	35.8 W	42.5 W	191 mA	85 °C	-40 ... +65 °C	18.18 kΩ
LCA 75W 250-750mA one4all C PRE OTD	300 mA	45 V	130 V	39.0 W	45.7 W	204 mA	85 °C	-40 ... +65 °C	16.67 kΩ
LCA 75W 250-750mA one4all C PRE OTD	325 mA	45 V	130 V	42.3 W	49.0 W	219 mA	85 °C	-40 ... +65 °C	15.38 kΩ
LCA 75W 250-750mA one4all C PRE OTD	350 mA	45 V	130 V	45.5 W	52.2 W	232 mA	85 °C	-40 ... +65 °C	14.29 kΩ
LCA 75W 250-750mA one4all C PRE OTD	375 mA	45 V	130 V	48.8 W	55.7 W	247 mA	85 °C	-40 ... +65 °C	13.33 kΩ
LCA 75W 250-750mA one4all C PRE OTD	400 mA	45 V	130 V	52.0 W	58.9 W	261 mA	85 °C	-40 ... +65 °C	12.50 kΩ
LCA 75W 250-750mA one4all C PRE OTD	425 mA	45 V	130 V	55.3 W	62.1 W	275 mA	85 °C	-40 ... +60 °C	11.76 kΩ
LCA 75W 250-750mA one4all C PRE OTD	450 mA	45 V	130 V	58.5 W	65.3 W	288 mA	85 °C	-40 ... +60 °C	11.11 kΩ
LCA 75W 250-750mA one4all C PRE OTD	475 mA	45 V	130 V	61.8 W	68.5 W	303 mA	85 °C	-40 ... +60 °C	10.53 kΩ
LCA 75W 250-750mA one4all C PRE OTD	500 mA	45 V	130 V	65.0 W	71.9 W	316 mA	85 °C	-40 ... +60 °C	10.00 kΩ
LCA 75W 250-750mA one4all C PRE OTD	525 mA	45 V	130 V	68.3 W	75.2 W	330 mA	85 °C	-40 ... +60 °C	9.52 kΩ
LCA 75W 250-750mA one4all C PRE OTD	550 mA	45 V	130 V	71.5 W	78.4 W	345 mA	85 °C	-40 ... +60 °C	9.09 kΩ
LCA 75W 250-750mA one4all C PRE OTD	575 mA	45 V	130 V	74.8 W	81.9 W	360 mA	85 °C	-40 ... +60 °C	8.70 kΩ
LCA 75W 250-750mA one4all C PRE OTD	600 mA	45 V	125 V	75.0 W	81.6 W	362 mA	85 °C	-40 ... +60 °C	8.33 kΩ
LCA 75W 250-750mA one4all C PRE OTD	625 mA	45 V	120 V	75.0 W	81.5 W	362 mA	80 °C	-40 ... +60 °C	8.00 kΩ
LCA 75W 250-750mA one4all C PRE OTD	650 mA	45 V	115 V	75.0 W	81.0 W	361 mA	80 °C	-40 ... +60 °C	7.69 kΩ
LCA 75W 250-750mA one4all C PRE OTD	675 mA	45 V	111 V	75.0 W	81.0 W	360 mA	85 °C	-40 ... +65 °C	7.41 kΩ
LCA 75W 250-750mA one4all C PRE OTD	700 mA	45 V	107 V	75.0 W	81.0 W	359 mA	85 °C	-40 ... +65 °C	7.14 kΩ
LCA 75W 250-750mA one4all C PRE OTD	725 mA	45 V	103 V	75.0 W	80.9 W	359 mA	85 °C	-40 ... +65 °C	6.90 kΩ
LCA 75W 250-750mA one4all C PRE OTD	750 mA	45 V	100 V	75.0 W	81.0 W	360 mA	85 °C	-40 ... +65 °C	6.67 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 28001072: Made in Europe, article number 87500664: Made in China.

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