

Driver LCA 120W 350–1050mA one4all C PRE OTD

PREMIUM outdoor series

**Product description**

- _ Dimmable built-in constant current LED Driver
- _ Output current adjustable between 350 – 1,050 mA via ready2mains Programmer, I-select 2 plugs or DALI
- _ Max. output power 120 W
- _ Power input on stand-by < 0.15 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/28001073>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

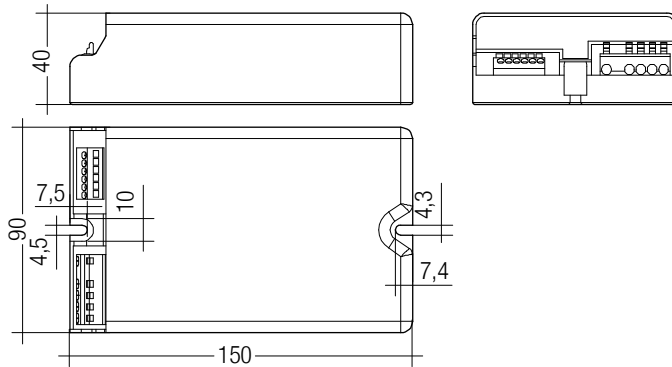


High bay

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



Ordering data

Type	Article number ^①	Packaging, carton	Packaging, pallet	Packaging, high volume	Weight per pc.
LCA 120W 350-1050mA one4all C PRE OTD	28001073	5 pc(s).	300 pc(s).	-	0.762 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}	393 – 566 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	82 – 110 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 390 A
Max. input power	130 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	93.5 %
λ (at 230 V, 50 Hz, full load) ^①	0.99
Typ. power input on stand-by ^③	< 0.15 W
In-rush current (peak / duration)	56 A / 280 s
THD (at 230 V, 50 Hz, full load) ^①	< 5 %
Time to light (at 230 V, 50 Hz, full load) ^①	< 660 ms
Time to light (DC mode)	< 650 ms
Switchover time (AC/DC)	< 80 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)	± 4 %
Max. output voltage	300 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	150 x 90 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 ^①	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 ^⑧
LCA 120W 350-1050mA one4all C PRE OTD	350 mA	75 V	230 V	80.5 W	88.6 W	393 mA	100 °C	-40 ... +65 °C	-
LCA 120W 350-1050mA one4all C PRE OTD	400 mA	75 V	230 V	92.0 W	100.4 W	443 mA	100 °C	-40 ... +65 °C	12.50 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	450 mA	75 V	230 V	103.5 W	112.3 W	494 mA	100 °C	-40 ... +65 °C	11.11 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	500 mA	75 V	230 V	115.0 W	124.4 W	546 mA	100 °C	-40 ... +65 °C	10.00 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	550 mA	75 V	218 V	120.0 W	129.3 W	565 mA	100 °C	-40 ... +65 °C	9.09 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	600 mA	75 V	200 V	120.0 W	128.8 W	563 mA	100 °C	-40 ... +65 °C	8.33 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	650 mA	75 V	185 V	120.0 W	128.7 W	564 mA	90 °C	-40 ... +65 °C	7.69 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	700 mA	75 V	171 V	120.0 W	128.4 W	562 mA	90 °C	-40 ... +70 °C	7.14 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	750 mA	75 V	160 V	120.0 W	128.6 W	561 mA	90 °C	-40 ... +70 °C	6.67 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	800 mA	75 V	150 V	120.0 W	128.6 W	563 mA	90 °C	-40 ... +70 °C	6.25 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	850 mA	75 V	141 V	120.0 W	128.7 W	563 mA	90 °C	-40 ... +70 °C	5.88 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	900 mA	75 V	133 V	120.0 W	128.9 W	563 mA	85 °C	-40 ... +65 °C	5.56 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	950 mA	75 V	126 V	120.0 W	129.1 W	565 mA	85 °C	-40 ... +65 °C	5.26 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	1,000 mA	75 V	120 V	120.0 W	129.2 W	565 mA	85 °C	-40 ... +65 °C	5.00 kΩ
LCA 120W 350-1050mA one4all C PRE OTD	1,050 mA	75 V	114 V	120.0 W	130.0 W	566 mA	85 °C	-40 ... +65 °C	4.76 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 28001073: Made in Europe, article number 87500657: Made in China.

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