

Driver LCA 60W 900–1750mA one4all C PRE premium series



Product description

- _ Dimmable built-in LED Driver
- _ Dimming range 1 to 100 %
- _ For luminaires of protection class I and protection class II
- _ Output current adjustable between 900 – 1,750 mA via ready2mains Programmer, I-SELECT 2 plugs or DALI
- _ Max. output power 60 W
- _ Up to 90 % efficiency
- _ Power input on stand-by < 0.2 W
- _ Nominal life-time up to 100,000 h
- _ 5-year 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 (DALI, ready2mains, I-SELECT 2)
- _ Constant light output function (CLO)
- _ Power-up fading at AC
- _ Configurable via ready2mains
- _ 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 life-time up to 100,000 h and 5-year guarantee

Typical applications

- _ For linear/area lighting in office applications

Website

<http://www.tridonic.com/28000667>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

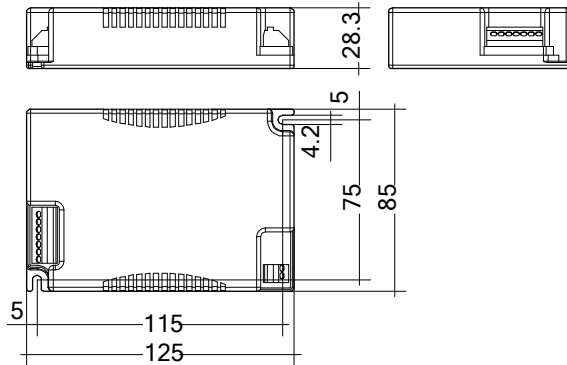


High bay

Driver LCA 60W 900–1750mA 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 60W 900-1750mA one4all C PRE	28000667	10 pc(s).	720 pc(s).	0.207 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}	241 – 293 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	43 – 54 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 700 µA
Max. input power	70 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	90 %
λ (at 230 V, 50 Hz, full load)	0.98
Typ. power input on stand-by ^③	< 0.2 W
Typ. input current in no-load operation	22 mA
Typ. input power in no-load operation	0.5 W
In-rush current (peak / duration)	26 A / 264 µs
THD (at 230 V, 50 Hz, full load) ^①	< 7 %
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 ^{①⑤}	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
Output LF current ripple (< 120 Hz)	± 3 %
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)	< 500 V
Type of protection	IP20
Life-time	up to 100,000 h
Dimensions L x W x H	125 x 85 x 28.3 mm

Approval marks



Standards

EN 62386-101 (DALI-2), EN 62386-102 (DALI-2), EN 62386-207 (DALI-2), Acc. to EN 50172, Acc. to EN 60598-2-22

Specific technical data

Type	Output current ^②	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 ^⑦
LCA 60W 900-1750mA one4all C PRE	900 mA	20 V	54.0 V	48.6 W	54.0 W	241 mA	85 °C	-25 ... +55 °C	-
LCA 60W 900-1750mA one4all C PRE	950 mA	20 V	54.0 V	51.3 W	57.3 W	254 mA	85 °C	-25 ... +55 °C	5.26 kΩ
LCA 60W 900-1750mA one4all C PRE	1,000 mA	20 V	54.0 V	54.0 W	60.1 W	267 mA	85 °C	-25 ... +55 °C	5.00 kΩ
LCA 60W 900-1750mA one4all C PRE	1,050 mA	20 V	54.0 V	56.7 W	63.3 W	281 mA	85 °C	-25 ... +55 °C	4.76 kΩ
LCA 60W 900-1750mA one4all C PRE	1,100 mA	20 V	54.0 V	59.4 W	65.9 W	292 mA	85 °C	-25 ... +55 °C	4.55 kΩ
LCA 60W 900-1750mA one4all C PRE	1,150 mA	20 V	52.2 V	60.0 W	66.7 W	295 mA	85 °C	-25 ... +55 °C	4.35 kΩ
LCA 60W 900-1750mA one4all C PRE	1,200 mA	20 V	50.0 V	60.0 W	66.5 W	294 mA	85 °C	-25 ... +55 °C	4.17 kΩ
LCA 60W 900-1750mA one4all C PRE	1,250 mA	20 V	48.0 V	60.0 W	66.8 W	295 mA	85 °C	-25 ... +55 °C	4.00 kΩ
LCA 60W 900-1750mA one4all C PRE	1,300 mA	20 V	46.2 V	60.0 W	66.2 W	293 mA	80 °C	-25 ... +55 °C	3.85 kΩ
LCA 60W 900-1750mA one4all C PRE	1,350 mA	20 V	44.4 V	60.0 W	66.4 W	294 mA	80 °C	-25 ... +55 °C	3.70 kΩ
LCA 60W 900-1750mA one4all C PRE	1,400 mA	20 V	42.9 V	60.0 W	66.3 W	294 mA	80 °C	-25 ... +55 °C	3.57 kΩ
LCA 60W 900-1750mA one4all C PRE	1,450 mA	20 V	41.4 V	60.0 W	66.8 W	295 mA	80 °C	-25 ... +55 °C	3.45 kΩ
LCA 60W 900-1750mA one4all C PRE	1,500 mA	20 V	40.0 V	60.0 W	66.3 W	293 mA	80 °C	-25 ... +55 °C	3.33 kΩ
LCA 60W 900-1750mA one4all C PRE	1,550 mA	20 V	38.7 V	60.0 W	66.0 W	292 mA	80 °C	-25 ... +55 °C	3.23 kΩ
LCA 60W 900-1750mA one4all C PRE	1,600 mA	20 V	37.5 V	60.0 W	66.2 W	293 mA	80 °C	-25 ... +55 °C	3.13 kΩ
LCA 60W 900-1750mA one4all C PRE	1,650 mA	20 V	36.4 V	60.0 W	66.8 W	295 mA	80 °C	-25 ... +55 °C	3.03 kΩ
LCA 60W 900-1750mA one4all C PRE	1,700 mA	20 V	35.3 V	60.0 W	66.0 W	292 mA	80 °C	-25 ... +55 °C	2.94 kΩ
LCA 60W 900-1750mA one4all C PRE	1,750 mA	20 V	34.3 V	60.0 W	66.2 W	293 mA	80 °C	-25 ... +55 °C	0.00 kΩ

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.