

Driver LCA 25W 350–1050mA one4all SR PRE
premium series

**Product description**

- _ Independent dimmable LED Driver
- _ Dimmable via DALI / DALI-2
- _ Dimming range 1 – 100 % (whole operating window)
- _ Output current adjustable between 350 – 1,050 mA via ready2mains Programmer, I-select 2 plugs or DALI
- _ Max. output power 25 W
- _ Up to 90 % efficiency
- _ Power input on stand-by < 0.15 W
- _ Nominal life-time up to 100,000 h
- _ 5-year guarantee

Housing properties

- _ Casing: polycarbonate, white
- _ Type of protection IP20
- _ Strain relief with loop through function

Interfaces

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

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
- _ For cable cross-sections up to 2.5 mm²

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
- _ No tools required for installation

Typical applications

- _ For downlight, spotlight and decorative applications

Website

<http://www.tridonic.com/28000671>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



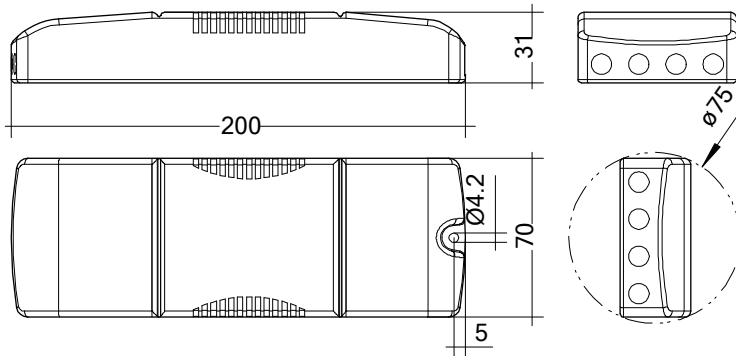
Decorative



High bay

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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
LCA 25W 350-1050mA one4all SR PRE	28000671	10 pc(s).	400 pc(s).	0.176 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}	95.8 – 128.4 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	94.1 – 129.5 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 150 µA
Max. input power	29.9 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	90 %
λ (at 230 V, 50 Hz, full load)	0.96C
Typ. power input on stand-by ^③	< 0.15 W
Typ. input current in no-load operation	28.5 mA
Typ. input power in no-load operation	0.58 W
In-rush current (peak / duration)	25 A / 141 µs
THD (at 230 V, 50 Hz, full load) ^①	< 7 %
Starting time (at 230 V, 50 Hz, full load) ^①	< 0.33 s
Starting time (DC mode)	< 0.33 s
Switchover time (AC/DC)	< 0.33 s
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)	± 2.5 %
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
Dimensions L x W x H	200 x 70 x 31 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),
Acc. to EN 50172, Acc. to EN 60598-2-22

Specific technical data

Type	Output current ^{②③}	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 ^④
LCA 25W 350-1050mA one4all SR PRE	350 mA	20 V	50 V	17.5 W	21.0 W	96 mA	80 °C	-25 ... +60 °C	-
LCA 25W 350-1050mA one4all SR PRE	400 mA	20 V	50 V	20.0 W	23.7 W	108 mA	80 °C	-25 ... +60 °C	12.50 kΩ
LCA 25W 350-1050mA one4all SR PRE	450 mA	20 V	50 V	22.5 W	26.3 W	119 mA	75 °C	-25 ... +55 °C	11.11 kΩ
LCA 25W 350-1050mA one4all SR PRE	500 mA	20 V	50 V	25.0 W	29.0 W	130 mA	75 °C	-25 ... +55 °C	10.00 kΩ
LCA 25W 350-1050mA one4all SR PRE	550 mA	20 V	46 V	25.0 W	29.0 W	130 mA	75 °C	-25 ... +55 °C	9.09 kΩ
LCA 25W 350-1050mA one4all SR PRE	600 mA	20 V	42 V	25.0 W	28.8 W	130 mA	75 °C	-25 ... +55 °C	8.33 kΩ
LCA 25W 350-1050mA one4all SR PRE	650 mA	20 V	39 V	25.0 W	29.0 W	130 mA	75 °C	-25 ... +60 °C	7.69 kΩ
LCA 25W 350-1050mA one4all SR PRE	700 mA	20 V	36 V	25.0 W	29.1 W	131 mA	75 °C	-25 ... +60 °C	7.14 kΩ
LCA 25W 350-1050mA one4all SR PRE	750 mA	20 V	33 V	25.0 W	29.1 W	131 mA	75 °C	-25 ... +60 °C	6.67 kΩ
LCA 25W 350-1050mA one4all SR PRE	800 mA	20 V	31 V	25.0 W	29.3 W	131 mA	75 °C	-25 ... +60 °C	6.25 kΩ
LCA 25W 350-1050mA one4all SR PRE	850 mA	20 V	29 V	25.0 W	29.4 W	132 mA	75 °C	-25 ... +60 °C	5.88 kΩ
LCA 25W 350-1050mA one4all SR PRE	900 mA	20 V	28 V	25.0 W	29.5 W	132 mA	75 °C	-25 ... +60 °C	5.56 kΩ
LCA 25W 350-1050mA one4all SR PRE	950 mA	20 V	26 V	25.0 W	29.6 W	133 mA	75 °C	-25 ... +60 °C	5.26 kΩ
LCA 25W 350-1050mA one4all SR PRE	1,000 mA	20 V	25 V	25.0 W	29.8 W	134 mA	75 °C	-25 ... +60 °C	5.00 kΩ
LCA 25W 350-1050mA one4all SR PRE	1,050 mA	20 V	24 V	25.0 W	29.9 W	134 mA	75 °C	-25 ... +60 °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 Output current is mean value.

⑤ 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.

⑥ Not compatible with I-select (generation 1).