

Driver LCAI 15W 150mA–400mA ECO slim
premium series

**Product description**

- _ Independent dimmable LED Driver
- _ Constant current LED Driver
- _ Output current adjustable between 150 – 400 mA
- _ Max. output power 15 W
- _ Nominal life-time up to 100,000 h
- _ Dimming range 1 to 100 %
- _ Pluggable LED connector (note that the connection cable is not within the scope of supply and needs to be ordered separately, see accessory)
- _ 5-year guarantee

Properties

- _ Casing: polycarbonate, black
- _ Type of protection IP20

Interfaces

- _ DALI Device Type 6
- _ DSI
- _ switchDIM (with memory function)
- _ corridorFUNCTION

Functions

- _ Adjustable output current (I-select resistor or DALI)
- _ Power-up fading at AC
- _ Intelligent Temperature Guard (overtemperature protection)
- _ Short-circuit protection
- _ Overload protection
- _ Constant light output function
- _ Suitable for emergency escape lighting systems acc. to EN 50172

Website

<http://www.tridonic.com/28000445>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



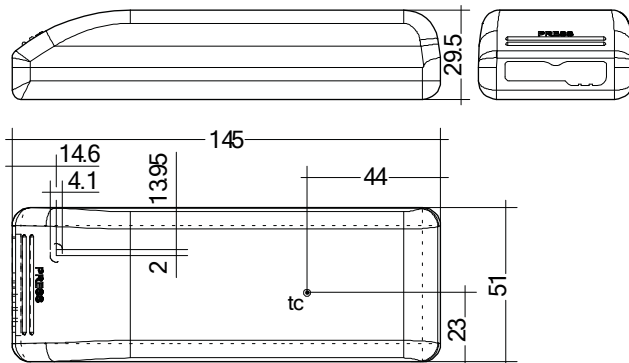
Decorative



High bay

Driver LCAI 15W 150mA–400mA ECO slim 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.
LCAI 15W 150mA-400mA ECO slim	28000445	10 pc(s).	700 pc(s).	0.126 kg

Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
Rated voltage range DC	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 48 h
Typ. rated current (at 230 V, 50 Hz, full load) ^{①②}	87.5 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	15 mA
Leakage current (PE)	< 580 µA
Max. input power	18.5 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	83 %
λ (at 230 V, 50 Hz, full load)	0.89C
Typ. power input on stand-by ^③	190 mW
THD (at 230 V, 50 Hz, full load)	< 6.5 %
Starting time (at 230 V, 50 Hz, full load, acc. to DALI)	< 0.6 s
Starting time (DC mode)	< 0.4 s
Switchover time (AC/DC)	< 0.4 s
Turn off time (at 230 V, 50 Hz, full load)	< 50 ms
Hold on time (at 230 V, 50 Hz, full load) ^④	15 ms
Output current tolerance ^{①⑤}	± 3 %
Output LF current ripple (< 120 Hz)	< 2 %
Max. peak output current	≤ output current + 18 %
Max. output voltage (U-OUT)	60 V
PWM frequency ^⑥	500 Hz
Dimming range	1 – 100 %
Burst / surge peaks output side against PE	< 500 V
Type of protection	IP20
Dimensions L x W x H	145 x 51 x 29.5 mm

Approval marks

IP20 SELV         RoHS

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)

Specific technical data

Type	Output current ^①	Min. forward voltage	Max. forward voltage ^②	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 resistor value
LCAI 15W 150mA-400mA ECO slim	150 mA	23 V	50 V	7.5 W	9.4 W	55.6 mA	75 °C	-25 ... +65 °C	-
LCAI 15W 150mA-400mA ECO slim	175 mA	23 V	50 V	8.8 W	10.8 W	60.7 mA	75 °C	-25 ... +65 °C	63.40 kΩ
LCAI 15W 150mA-400mA ECO slim	200 mA	23 V	50 V	10.0 W	12.2 W	65.9 mA	75 °C	-25 ... +65 °C	54.90 kΩ
LCAI 15W 150mA-400mA ECO slim	225 mA	23 V	50 V	11.3 W	13.6 W	71.0 mA	75 °C	-25 ... +65 °C	47.50 kΩ
LCAI 15W 150mA-400mA ECO slim	250 mA	23 V	50 V	12.5 W	15.0 W	76.2 mA	75 °C	-25 ... +60 °C	40.20 kΩ
LCAI 15W 150mA-400mA ECO slim	275 mA	23 V	50 V	13.8 W	16.4 W	81.4 mA	75 °C	-25 ... +60 °C	34.00 kΩ
LCAI 15W 150mA-400mA ECO slim	300 mA	23 V	50 V	15.0 W	17.8 W	86.5 mA	75 °C	-25 ... +60 °C	27.40 kΩ
LCAI 15W 150mA-400mA ECO slim	325 mA	21 V	46 V	15.0 W	17.8 W	86.5 mA	75 °C	-25 ... +60 °C	22.00 kΩ
LCAI 15W 150mA-400mA ECO slim	350 mA	19 V	43 V	15.0 W	17.8 W	86.8 mA	75 °C	-25 ... +60 °C	12.00 kΩ
LCAI 15W 150mA-400mA ECO slim	375 mA	18 V	40 V	15.0 W	17.9 W	87.0 mA	75 °C	-25 ... +60 °C	6.19 kΩ
LCAI 15W 150mA-400mA ECO slim	400 mA	17 V	38 V	15.0 W	18.0 W	87.5 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 At power failure.

⑤ Output current is mean value.

⑥ ± 20 %.

⑦ At full load.