

TALEXdriver LCAI 20W 350mA–550mA ECO Ip

ECO series

The TALEXdriver ECO Ip series combines superior dimming performance via DALI, DSI and switchDIM with advanced functionalities like life-time compensation and temperature protection of your LED light engine. Covering an output power range of 20 to 65 W at an adjustable current range from 150 up to 1750 mA allows you to choose the perfect LED Driver for your linear / area luminaires. Using the ECO Ip series enables you to operate your luminaire with optimal performance and maximum efficiency.

**Product description**

- _ Dimmable built-in LED Driver
- _ Constant current LED Driver
- _ Output current adjustable between 350 – 550 mA
- _ Max. output power 20 W
- _ Nominal life-time up to 100,000 h
- _ 5-year guarantee
- _ Dimming range 1 to 100 %

Properties

- _ Low profile metal casing with white cover
- _ Type of protection IP20

Interfaces

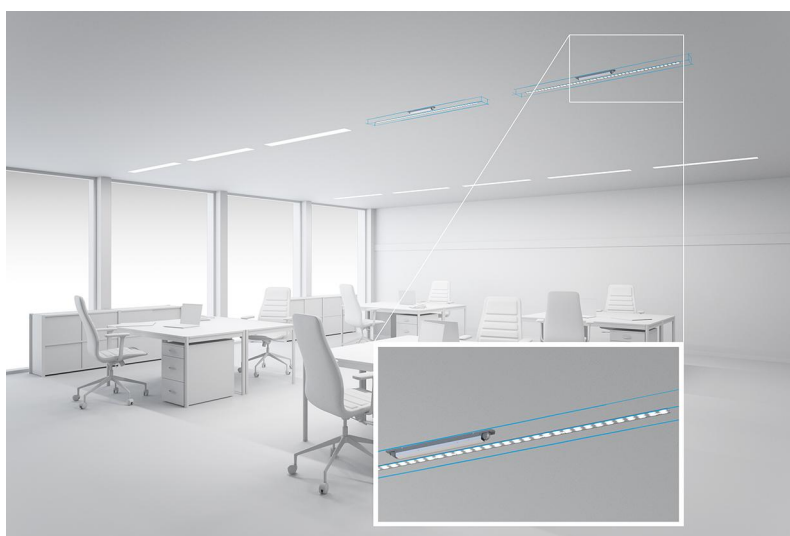
- _ DALI Device Type 6
- _ DSI
- _ switchDIM (with memory function)
- _ corridorFUNCTION

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/28000841>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

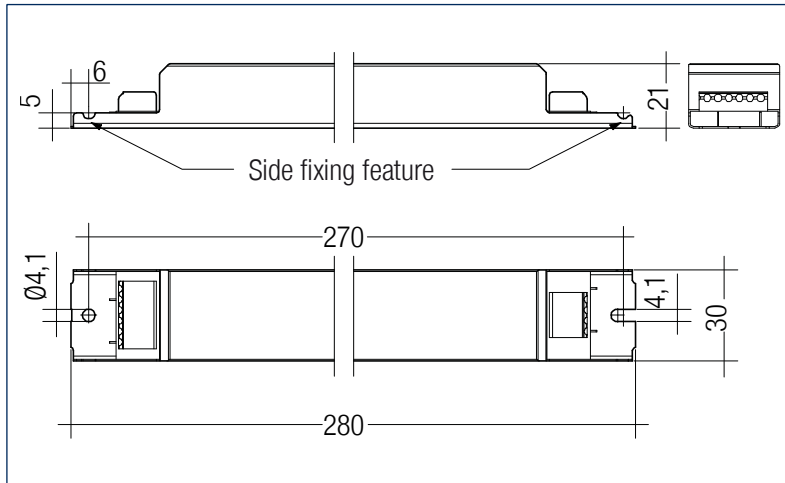


High bay

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



Ordering data

| Type | Article number | Packaging, carton | Packaging, pallet | Weight per pc. |
|-----------------------------|----------------|-------------------|-------------------|----------------|
| LCAI 20W 350mA-550mA ECO Ip | 28000841 | 10 pc(s). | 960 pc(s). | 0.193 kg |

Technical data

| | |
|--|------------------------------|
| Rated supply voltage | 220 – 240 V |
| Input voltage AC | 198 – 264 V |
| Input voltage DC | 170 – 280 V |
| Mains frequency | 0 / 50 / 60 Hz |
| Oversvoltage protection | 320 V AC, 48 h |
| Typ. current (at 230 V, 50 Hz, full load) ^{①②} | 90 – 110 mA |
| Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^② | 15 – 20 mA |
| Leakage current (PE) | < 0.5 mA |
| Max. input power | 25 W |
| Typ. efficiency (at 230 V, 50 Hz, full load) ^② | 85.3 – 86.7 % |
| λ (at 230 V, 50 Hz, full load) ^{②③} | 0.83 – 0.95 |
| Typ. power input on stand-by ^③ | 120 – 140 mW |
| THD (at 230 V, 50 Hz, full load) | < 22 % |
| Time to light (at 230 V, 50 Hz, full load, acc. to DALI) | < 0.6 s |
| Time to light (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 ^① | \pm 3 % |
| Output LF current ripple (< 120 Hz) | < 2 % |
| Max. peak output current | \leq output current + 18 % |
| Max. output voltage | 60 V |
| PWM frequency ^⑤ | 500 Hz |
| Dimming range | 1 – 100 % |
| Burst / surge peaks output side against PE | < 500 V |
| Dimensions L x W x H | 280 x 30 x 21 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, EN 62386-102, EN 62386-207

Specific technical data

| Type | Output current | Min. forward voltage | Max. forward voltage ^① | Max. output power ^② | Typ. power consumption on (at 230 V, 50 Hz, full load) | Typ. current consumption on (at 230 V, 50 Hz, full load) | tc point max. | Ambient temperature ta | I-select resistor value |
|-----------------------------|----------------|----------------------|-----------------------------------|--------------------------------|--|--|---------------|------------------------|-------------------------|
| LCAI 20W 350mA-550mA ECO Ip | 350 mA | 23 V | 50 V | 17.5 W | 19.7 W | 91 mA | 80 °C | -25 ... +65 °C | - |
| LCAI 20W 350mA-550mA ECO Ip | 375 mA | 23 V | 50 V | 19.0 W | 21.2 W | 97 mA | 80 °C | -25 ... +65 °C | 71.5 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 400 mA | 23 V | 50 V | 20.0 W | 22.7 W | 103 mA | 80 °C | -25 ... +65 °C | 66.5 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 425 mA | 21 V | 47 V | 20.0 W | 22.7 W | 103 mA | 80 °C | -25 ... +65 °C | 61.9 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 450 mA | 20 V | 44 V | 20.0 W | 22.1 W | 105 mA | 80 °C | -25 ... +65 °C | 57.6 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 475 mA | 19 V | 42 V | 20.0 W | 23.1 W | 105 mA | 80 °C | -25 ... +65 °C | 53.6 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 500 mA | 18 V | 40 V | 20.0 W | 23.2 W | 105 mA | 80 °C | -25 ... +65 °C | 49.9 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 525 mA | 17 V | 38 V | 20.0 W | 23.0 W | 105 mA | 80 °C | -25 ... +65 °C | 45.3 kΩ |
| LCAI 20W 350mA-550mA ECO Ip | 550 mA | 16 V | 36 V | 20.0 W | 23.1 W | 105 mA | 80 °C | -25 ... +65 °C | 0.0 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 ± 20 %.

⑥ At full load.