

**Driver LCA 75W 900–1800mA one4all Ip PRE**

PREMIUM series SELV

**Product description**

- \_ Dimmable built-in constant current LED Driver
- \_ Output current adjustable between 900 – 1,800 mA
- \_ Max. output power 75 W
- \_ Up to 91 % efficiency
- \_ Power input on stand-by < 0.15 W
- \_ Dimming range 1 to 100 %
- \_ For luminaires of protection class I and protection class II
- \_ Nominal life-time up to 100,000 h
- \_ 5-year guarantee

**Housing properties**

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

**Interfaces**

- \_ one4all (DALI DT 6, DSI, switchDIM, corridorFUNCTION)
- \_ ready2mains (configuration and dimming via mains)
- \_ Terminal blocks: 0° 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/28000660>


Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

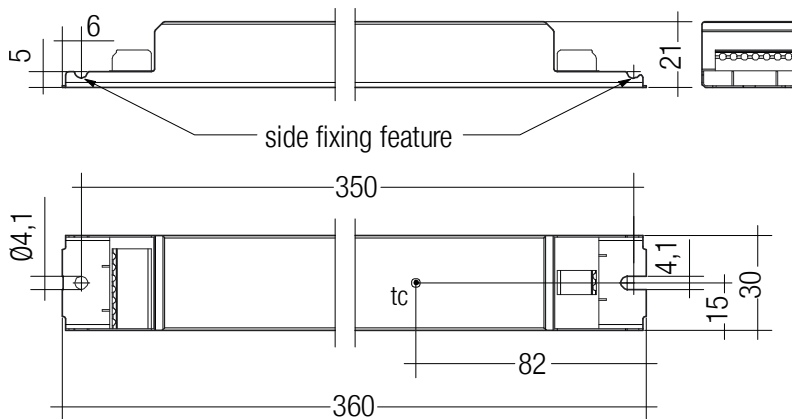


High bay

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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. |
|-----------------------------------|----------------|-------------------|-------------------|----------------|
| LCA 75W 900-1800mA one4all Ip PRE | 28000660       | 10 pc(s).         | 760 pc(s).        | 0.266 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) <sup>①②</sup>                | 228 – 363 mA            |
| Typ. current (220 V, 0 Hz, full load, 15 % dimming level) <sup>②</sup> | 50 – 71 mA              |
| Leakage current (at 230 V, 50 Hz, full load) <sup>①②</sup>             | < 550 A                 |
| Max. input power                                                       | 83 W                    |
| Typ. efficiency (at 230 V, 50 Hz, full load) <sup>②</sup>              | 91 %                    |
| $\lambda$ (at 230 V, 50 Hz, full load) <sup>①</sup>                    | 0.98                    |
| Typ. power input on stand-by <sup>③</sup>                              | < 0.15 W                |
| Typ. input current in no-load operation                                | 33 mA                   |
| Typ. input power in no-load operation                                  | 0.41 W                  |
| In-rush current (peak / duration)                                      | 34 A / 193 s            |
| THD (at 230 V, 50 Hz, full load) <sup>①</sup>                          | < 8.2 %                 |
| Time to light (at 230 V, 50 Hz, full load) <sup>①</sup>                | < 0.6 s                 |
| Time to light (DC mode)                                                | < 0.3 s                 |
| Switchover time (AC/DC)                                                | < 0.3 s                 |
| Turn off time (at 230 V, 50 Hz, full load)                             | < 4 ms                  |
| Output current tolerance <sup>①④</sup>                                 | ± 3 %                   |
| Max. output current peak (non-repetitive)                              | ≤ output current + 40 % |
| Output LF current ripple (< 120 Hz)                                    | ± 5 %                   |
| Max. output voltage (no-load voltage)                                  | 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                 |
| Dimensions L x W x H                                                   | 360 x 30 x 21 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, EN 62386-102, EN 62386-207, Acc. to EN 50172, Acc. to EN 60598-2-22

## Specific technical data

| Type                              | Output current <sup>④</sup> | 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 <sup>⑥</sup> |
|-----------------------------------|-----------------------------|----------------------|----------------------|-------------------|-----------------------------------------------------|-------------------------------------------------------|---------------|------------------------|----------------------------------------|
| LCA 75W 900-1800mA one4all Ip PRE | 900 mA                      | 20 V                 | 50.0 V               | 45.0 W            | 50.9 W                                              | 228 mA                                                | 85 °C         | -25 ... +65 °C         | –                                      |
| LCA 75W 900-1800mA one4all Ip PRE | 950 mA                      | 20 V                 | 50.0 V               | 47.5 W            | 53.5 W                                              | 241 mA                                                | 85 °C         | -25 ... +65 °C         | 5.26 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,000 mA                    | 20 V                 | 50.0 V               | 50.0 W            | 56.2 W                                              | 253 mA                                                | 85 °C         | -25 ... +65 °C         | 5.00 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,050 mA                    | 20 V                 | 50.0 V               | 52.5 W            | 58.6 W                                              | 263 mA                                                | 85 °C         | -25 ... +65 °C         | 4.76 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,100 mA                    | 20 V                 | 50.0 V               | 55.0 W            | 61.2 W                                              | 274 mA                                                | 85 °C         | -25 ... +65 °C         | 4.55 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,150 mA                    | 20 V                 | 50.0 V               | 57.5 W            | 63.9 W                                              | 286 mA                                                | 80 °C         | -25 ... +60 °C         | 4.35 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,200 mA                    | 20 V                 | 50.0 V               | 60.0 W            | 65.4 W                                              | 296 mA                                                | 80 °C         | -25 ... +60 °C         | 4.17 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,250 mA                    | 20 V                 | 50.0 V               | 62.5 W            | 69.1 W                                              | 308 mA                                                | 80 °C         | -25 ... +60 °C         | 4.00 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,300 mA                    | 20 V                 | 50.0 V               | 65.0 W            | 71.5 W                                              | 318 mA                                                | 80 °C         | -25 ... +60 °C         | 3.85 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,350 mA                    | 20 V                 | 50.0 V               | 67.5 W            | 74.1 W                                              | 329 mA                                                | 80 °C         | -25 ... +60 °C         | 3.70 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,400 mA                    | 20 V                 | 50.0 V               | 70.0 W            | 76.9 W                                              | 341 mA                                                | 80 °C         | -25 ... +60 °C         | 3.57 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,500 mA                    | 20 V                 | 50.0 V               | 75.0 W            | 82.1 W                                              | 363 mA                                                | 75 °C         | -25 ... +55 °C         | 3.33 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,600 mA                    | 20 V                 | 46.9 V               | 75.0 W            | 81.6 W                                              | 361 mA                                                | 75 °C         | -25 ... +55 °C         | 3.13 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,700 mA                    | 20 V                 | 44.1 V               | 75.0 W            | 81.6 W                                              | 361 mA                                                | 75 °C         | -25 ... +55 °C         | 2.94 kΩ                                |
| LCA 75W 900-1800mA one4all Ip PRE | 1,800 mA                    | 20 V                 | 41.7 V               | 75.0 W            | 81.8 W                                              | 362 mA                                                | 75 °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 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).