

**Driver LC 20W 80–500mA flexC NF h16 EXC4**

excite series

**Product description**

- \_ Constant current LED driver for luminaire installation
- \_ For luminaires of protection class I and protection class II
- \_ Adjustable output current between 80 and 500 mA via NFC
- \_ Max. output power 20 W
- \_ Up to 83 % efficiency
- \_ Nominal lifetime of 100,000 h
- \_ 5 years guarantee (conditions at [www.tridonic.com](http://www.tridonic.com))

**Housing properties**

- \_ Low profile metal casing with white cover
- \_ Only 16 mm housing height
- \_ Type of protection IP20

**Interfaces**

- \_ Near field communication (NFC)
- \_ Terminal blocks: 0° push terminals

**Functions**

- \_ Adjustable output current in 2-mA-steps (NFC)
- \_ Constant light output function (eCLO)
- \_ Protective features (overtemperature, short-circuit, overload, no-load)
- \_ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
- \_ Suitable for emergency escape lighting systems acc. to EN 50172

**Benefits**

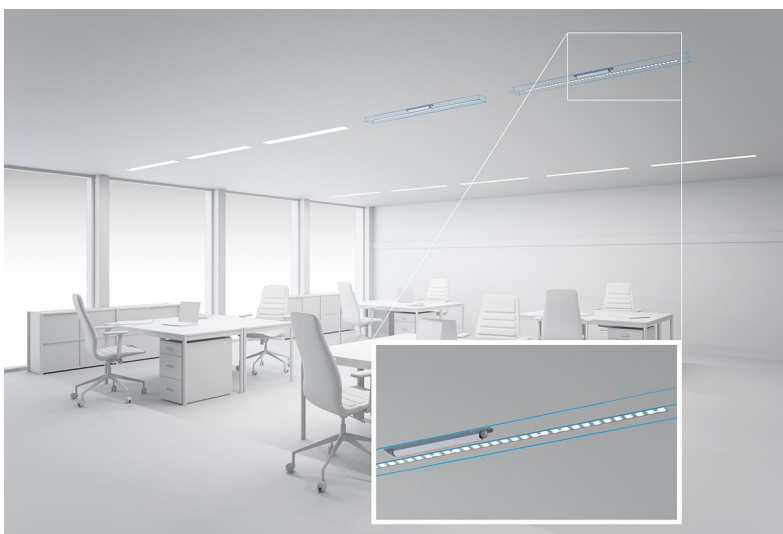
- \_ Flexible configuration via companionSUITE
- \_ Support NFC multiple programming (full carton box)
- \_ Application-oriented operating window for maximum compatibility
- \_ Best energy savings due to high efficiency
- \_ Reliability proven by lifetime up to 100,000 h and 5 years guarantee (conditions at [www.tridonic.com](http://www.tridonic.com))

**Typical applications**

- \_ For linear/area lighting in office applications

**Website**

<http://www.tridonic.com/28004409>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



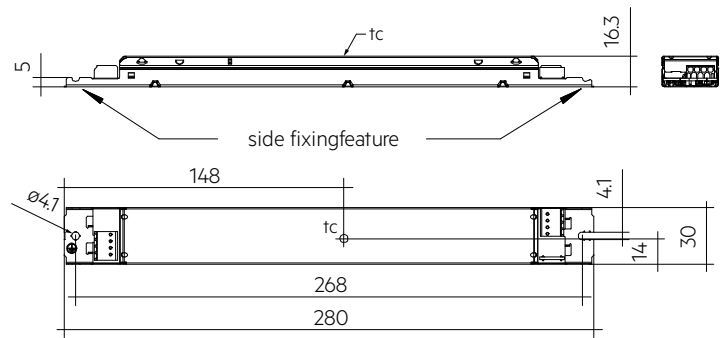
Decorative



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. |
|-----------------------------------|----------------|-------------------|-------------------|----------------|
| LC 20/80-500/54 flexC NF h16 EXC4 | 28004409       | 10 pc(s).         | 1,150 pc(s).      | 0.158 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. rated current (at 230 V, 50 Hz, full load) <sup>①</sup> | 108 mA                 |
| Typ. current (220 V, 0 Hz, full load) <sup>①</sup>           | 110 mA                 |
| Leakage current (at 230 V, 50 Hz, full load) <sup>①</sup>    | < 700 µA               |
| Max. input power                                             | 23.6 W                 |
| Output power range (P <sub>rated</sub> )                     | 1.2 – 20 W             |
| Typ. efficiency (at 230 V, 50 Hz, full load) <sup>①</sup>    | 83 %                   |
| λ over full operating range (max.)                           | 0.96                   |
| λ over full operating range (min.)                           | 0.3C                   |
| Typ. input current in no-load operation                      | 25.5 mA                |
| Typ. input power in no-load operation                        | 1.2 W                  |
| In-rush current (peak / duration)                            | 4.97 A / 45 µs         |
| THD (at 230 V, 50 Hz, full load)                             | < 10 %                 |
| Starting time (AC mode)                                      | < 0.5 s                |
| Starting time (DC mode)                                      | < 0.5 s                |
| Switchover time (AC/DC) <sup>②</sup>                         | < 0.5 s                |
| Turn off time (at 230 V, 50 Hz, full load)                   | < 30 ms                |
| Output current tolerance <sup>③④</sup>                       | ± 5 %                  |
| Max. output current peak (non-repetitive)                    | ≤ output current + 5 % |
| Output LF current ripple (< 120 Hz)                          | ± 1.5 %                |
| Output P <sub>ST_LM</sub> (at full load)                     | ≤ 1                    |
| Output SVM (at full load)                                    | ≤ 0.4                  |
| Max. output voltage (U-OUT)                                  | 57 V                   |
| Mains surge capability (between L - N)                       | 1 kV                   |
| Mains surge capability (between L/N - PE)                    | 2 kV                   |
| Surge voltage at output side (against PE)                    | < 0.5 kV               |
| Type of protection                                           | IP20                   |
| Lifetime                                                     | up to 100,000 h        |
| Guarantee                                                    | 5 Year(s)              |
| Dimensions L x W x H                                         | 280 x 30 x 16 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, according to EN 50172, according to EN 60598-2-22

**Specific technical data**

| Type                              | Output current <sup>⑤</sup> | Min. output voltage | Max. output 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 <sub>c</sub> point max. | Ambient temperature T <sub>a</sub> |
|-----------------------------------|-----------------------------|---------------------|---------------------|-------------------|-----------------------------------------------------|-------------------------------------------------------|---------------------------|------------------------------------|
| LC 20/80-500/54 flexC NF h16 EXC4 | 80 mA                       | 15 V                | 54 V                | 4.3 W             | 6.3 W                                               | 42 mA                                                 | 70 °C                     | -20 ... +60 °C                     |
| LC 20/80-500/54 flexC NF h16 EXC4 | 100 mA                      | 15 V                | 54 V                | 5.4 W             | 7.4 W                                               | 46 mA                                                 | 70 °C                     | -20 ... +60 °C                     |
| LC 20/80-500/54 flexC NF h16 EXC4 | 200 mA                      | 15 V                | 54 V                | 10.8 W            | 13.1 W                                              | 67 mA                                                 | 70 °C                     | -20 ... +60 °C                     |
| LC 20/80-500/54 flexC NF h16 EXC4 | 300 mA                      | 15 V                | 54 V                | 16.2 W            | 18.9 W                                              | 90 mA                                                 | 70 °C                     | -20 ... +60 °C                     |
| LC 20/80-500/54 flexC NF h16 EXC4 | 370 mA                      | 15 V                | 54 V                | 20.0 W            | 23.1 W                                              | 106 mA                                                | 75 °C                     | -20 ... +60 °C                     |
| LC 20/80-500/54 flexC NF h16 EXC4 | 400 mA                      | 15 V                | 50 V                | 20.0 W            | 23.2 W                                              | 107 mA                                                | 75 °C                     | -20 ... +60 °C                     |
| LC 20/80-500/54 flexC NF h16 EXC4 | 500 mA                      | 15 V                | 40 V                | 20.0 W            | 23.7 W                                              | 109 mA                                                | 75 °C                     | -20 ... +60 °C                     |

<sup>①</sup> Depending on the selected output current.

<sup>②</sup> Valid for immediate change of power supply type otherwise the starting time is valid.

<sup>③</sup> Output current is mean value.

<sup>④</sup> Test result at 230 V, 50 Hz, full load and 25 °C.

<sup>⑤</sup> 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 2-mA-steps.