

Driver LC 17W 250–700mA bDW SC PRE2 premium series



With strain-relief



Product description

- _ Can be integrated in Casambi systems (Casambi Ready)
- _ NEW: lumDATA (Luminaire data, Energy reporting and Diagnostics & Maintenance)
- _ Dimmable built-in constant current LED driver
- _ Can be either used built-in or independent with clip-on strain-relief (see accessory)
- _ Forms automatically a wireless communication network with up to 250 nodes
- _ Adjustable output current between 250 and 700 mA via ready2mains Programmer or I-SELECT 2 plugs
- _ Max. output power 17 W
- _ Up to 86 % efficiency
- _ Power input on stand-by < 0.35 W
- _ Dimming range 1 to 100 %
- _ For luminaires of protection class I and protection class II
- _ Nominal lifetime up to 100,000 h
- _ 5 years guarantee (conditions at www.tridonic.com)

Housing properties

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

Interfaces

- _ basicDIM Wireless
- _ ready2mains (configuration via mains)
- _ Terminal blocks: 45° push terminals

Functions

- _ Adjustable output current in 1-mA-steps (ready2mains, I-SELECT 2)
- _ Constant light output function (CLO)
- _ Power-up fading at AC
- _ Switch off the driver with fade2zero
- _ Configurable via ready2mains
- _ Service monitor to log certain events
- _ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range, reduced surge amplification)
- _ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
- _ 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 basicDIM Wireless, ready2mains and I-SELECT 2

Typical applications

- _ For linear/area lighting in office applications

Website

<http://www.tridonic.com/28002412>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

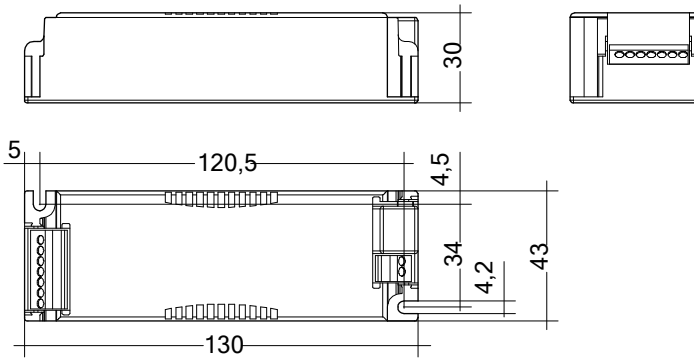


High bay

Driver LC 17W 250–700mA bDW SC PRE2

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.
LC 17/250-700/50 bDW SC PRE2	28002412	10 pc(s).	1,000 pc(s).	0.125 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}	65 – 95 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	15 – 25 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 700 µA
Max. input power	22.5 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	86 %
λ (at 230 V, 50 Hz, full load)	0.96
Typ. power consumption on stand-by	< 0.35 W
Typ. input current in no-load operation	12.3 mA
Typ. input power in no-load operation	0.35 W
In-rush current (peak / duration)	20 A / 140 µs
THD (at 230 V, 50 Hz, full load) ^①	< 3 %
Starting time (at 230 V, 50 Hz, full load) ^①	< 0.7 s
Starting time (DC mode)	< 0.4 s
Switchover time (AC/DC) ^③	< 0.4 s
Turn off time (at 230 V, 50 Hz, full load)	< 30 ms
Output current tolerance ^④	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
Output LF current ripple (< 120 Hz)	± 5 %
Output P_ST_LM (at full load)	≤ 1
Output SVM (at full load)	≤ 0.4
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)	< 0.5 kV
Type of protection	IP20
Radio transceiver operating frequencies	2.4 – 2.483 GHz
Max. output power radio transceiver (E.R.I.P.) ^⑤	< + 20 dBm
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	130 x 43 x 30 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, ETSI EN 300 330, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 300 328, ETSI EN 301 489-17, according to EN 50172, according to EN 60598-2-22

Specific technical data

Type	Output current ^④	Min. output voltage	Max. output voltage	Max. output power	Typ. power consumption n (at 230 V, 50 Hz, full load)	Typ. current consumption n (at 230 V, 50 Hz, full load)	tc point max.	Ambient temperature ta	I-SELECT 2 resistor value
LC 17/250-700/50 bDW SC PRE2	250 mA	15 V	50 V	12.5 W	15.3 W	68 mA	80 °C	-25 ... +55 °C	-
LC 17/250-700/50 bDW SC PRE2	300 mA	15 V	50 V	15.0 W	18.0 W	80 mA	80 °C	-25 ... +55 °C	16.67 kΩ
LC 17/250-700/50 bDW SC PRE2	350 mA	15 V	49 V	17.2 W	20.1 W	89 mA	80 °C	-25 ... +55 °C	14.29 kΩ
LC 17/250-700/50 bDW SC PRE2	400 mA	15 V	43 V	17.2 W	19.9 W	88 mA	75 °C	-25 ... +60 °C	12.50 kΩ
LC 17/250-700/50 bDW SC PRE2	450 mA	15 V	38 V	17.1 W	19.6 W	88 mA	75 °C	-25 ... +60 °C	11.11 kΩ
LC 17/250-700/50 bDW SC PRE2	500 mA	15 V	34 V	17.0 W	19.5 W	86 mA	75 °C	-25 ... +60 °C	10.00 kΩ
LC 17/250-700/50 bDW SC PRE2	550 mA	15 V	31 V	17.1 W	19.5 W	86 mA	75 °C	-25 ... +60 °C	9.09 kΩ
LC 17/250-700/50 bDW SC PRE2	600 mA	15 V	28 V	16.8 W	19.2 W	85 mA	75 °C	-25 ... +60 °C	8.33 kΩ
LC 17/250-700/50 bDW SC PRE2	650 mA	15 V	26 V	16.9 W	19.4 W	86 mA	75 °C	-25 ... +60 °C	7.69 kΩ
LC 17/250-700/50 bDW SC PRE2	700 mA	15 V	24 V	16.8 W	19.4 W	85 mA	75 °C	-25 ... +60 °C	0.00 kΩ

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Valid for immediate change of power supply type otherwise the starting time is valid.

④ Output current is mean value.

⑤ E.I.R.P.: Equivalent Isotropically Radiated Power.

⑥ 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.

⑦ Not compatible with I-SELECT (generation 1). Calculated resistor value.