

Driver LC 25W 350–1050mA bDW SC PRE2
premium series



With strain-relief

Product description

- _ 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 350 and 1,050 mA via ready2mains Programmer or I-SELECT 2 plugs
- _ Max. output power 25 W
- _ Up to 90 % efficiency
- _ Power input on stand-by < 0.37 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

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

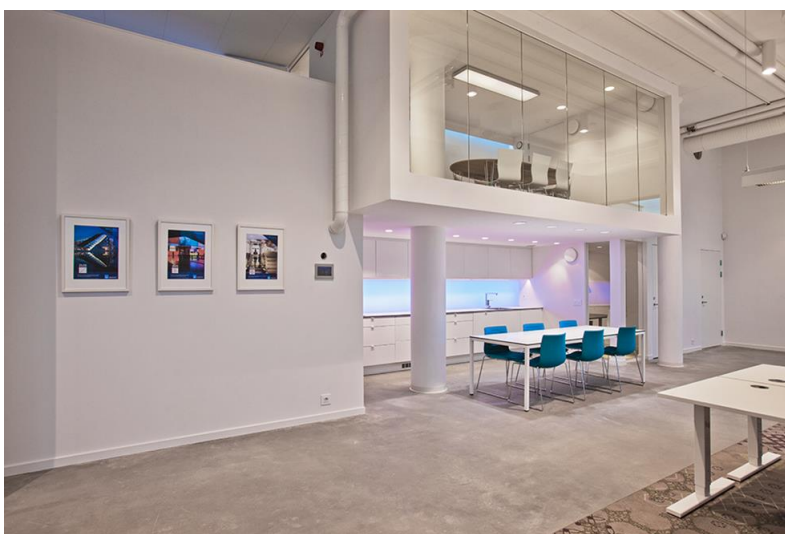
- _ Application-oriented operating window for maximum compatibility
- _ Best energy savings due to low stand-by losses and high efficiency
- _ Flexible configuration via basicDIM Wireless, ready2mains and I-SELECT 2

Typical applications

- _ For linear/area lighting in office applications

Website

<http://www.tridonic.com/28002413>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



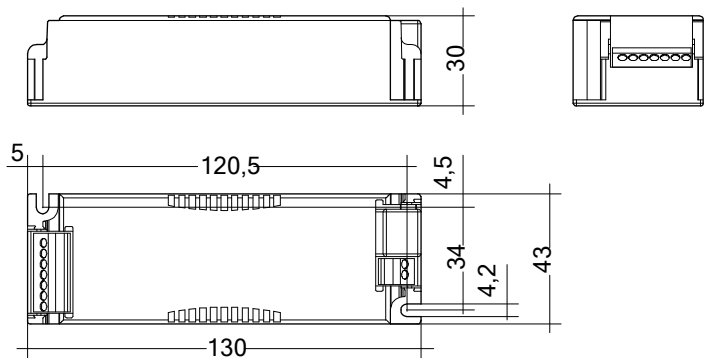
Decorative



High bay

Driver LC 25W 350–1050mA 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 25/350-1050/50 bDW SC PRE2	28002413	10 pc(s).	1,000 pc(s).	0.128 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}	95.4 – 127.6 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	22.8 – 28.4 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 350 µA
Max. input power	28.7 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	90 %
λ (at 230 V, 50 Hz, full load)	0.96
Typ. power consumption on stand-by	< 0.37 W
Typ. input current in no-load operation	17.3 mA
Typ. input power in no-load operation	0.53 W
In-rush current (peak / duration)	26 A / 151 µs
THD (at 230 V, 50 Hz, full load) ^①	< 8 %
Starting time (at 230 V, 50 Hz, full load) ^①	< 0.33 s
Starting time (DC mode)	< 0.33 s
Switchover time (AC/DC) ^③	< 0.33 s
Turn off time (at 230 V, 50 Hz, full load)	< 20 ms
Output current tolerance ^{①④}	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
Output LF current ripple (< 120 Hz)	± 2.5 %
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. 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 ^⑥
LC 25/350-1050/50 bDW SC PRE2	350 mA	20 V	50 V	17.5 W	20.9 W	94 mA	75 °C	-25 ... +55 °C	-
LC 25/350-1050/50 bDW SC PRE2	400 mA	20 V	50 V	20.0 W	23.5 W	106 mA	75 °C	-25 ... +55 °C	12.50 kΩ
LC 25/350-1050/50 bDW SC PRE2	450 mA	20 V	50 V	22.5 W	26.1 W	116 mA	75 °C	-25 ... +55 °C	11.11 kΩ
LC 25/350-1050/50 bDW SC PRE2	500 mA	20 V	50 V	25.0 W	28.7 W	128 mA	75 °C	-25 ... +55 °C	10.00 kΩ
LC 25/350-1050/50 bDW SC PRE2	550 mA	20 V	45 V	24.8 W	28.4 W	126 mA	75 °C	-25 ... +55 °C	9.09 kΩ
LC 25/350-1050/50 bDW SC PRE2	600 mA	20 V	41 V	24.6 W	28.3 W	126 mA	75 °C	-25 ... +55 °C	8.33 kΩ
LC 25/350-1050/50 bDW SC PRE2	650 mA	20 V	38 V	24.7 W	28.2 W	125 mA	75 °C	-25 ... +60 °C	7.69 kΩ
LC 25/350-1050/50 bDW SC PRE2	700 mA	20 V	35 V	24.5 W	28.1 W	125 mA	75 °C	-25 ... +60 °C	7.14 kΩ
LC 25/350-1050/50 bDW SC PRE2	750 mA	20 V	33 V	24.8 W	28.1 W	125 mA	75 °C	-25 ... +60 °C	6.67 kΩ
LC 25/350-1050/50 bDW SC PRE2	800 mA	20 V	31 V	24.8 W	28.2 W	125 mA	75 °C	-25 ... +60 °C	6.25 kΩ
LC 25/350-1050/50 bDW SC PRE2	850 mA	20 V	29 V	24.7 W	28.2 W	125 mA	75 °C	-25 ... +60 °C	5.88 kΩ
LC 25/350-1050/50 bDW SC PRE2	900 mA	20 V	27 V	24.3 W	28.3 W	125 mA	75 °C	-25 ... +60 °C	5.56 kΩ
LC 25/350-1050/50 bDW SC PRE2	950 mA	20 V	26 V	24.7 W	28.4 W	125 mA	75 °C	-25 ... +60 °C	5.26 kΩ
LC 25/350-1050/50 bDW SC PRE2	1,000 mA	20 V	25 V	25.0 W	28.4 W	126 mA	75 °C	-25 ... +60 °C	5.00 kΩ
LC 25/350-1050/50 bDW SC PRE2	1,050 mA	20 V	23 V	24.2 W	28.6 W	126 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.