

Driver LC 50W 100–400mA flexC Ip EXC

excite series non-SELV

**Product description**

- _ Constant current LED Driver for luminaire installation
- _ For luminaires of protection class I and protection class II
- _ Adjustable output current between 100 and 400 mA via ready2mains Programmer or I-SELECT 2 plugs
- _ Max. output power 50 W
- _ Up to 93 % efficiency
- _ 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

- _ ready2mains (configuration via mains)
- _ Terminal blocks: 0° push terminals

Functions

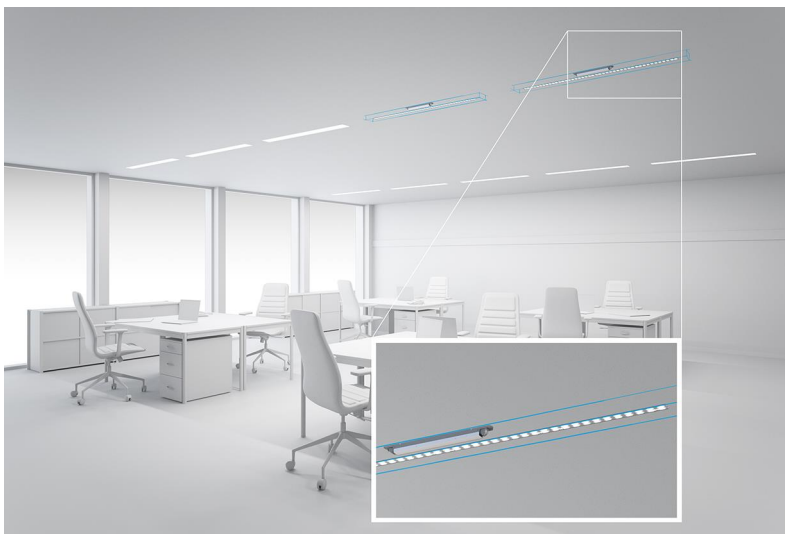
- _ Adjustable output current in 1-mA-steps (ready2mains, I-SELECT 2)
- _ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range)
- _ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
- _ Suitable for emergency escape lighting systems acc. to EN 50172

Benefits

- _ Application-oriented operating window for maximum compatibility
- _ Best energy savings due to high efficiency
- _ Flexible configuration via 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/28000680>


Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

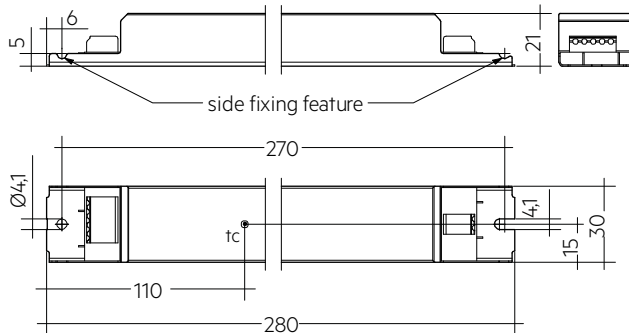


High bay

Driver LC 50W 100–400mA flexC Ip EXC

excite series non-SELV

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 50W 100-400mA flexC Ip EXC	28000680	10 pc(s).	960 pc(s).	0.178 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) ^①	236 mA
Typ. current (220 V, 0 Hz, full load) ^{①②}	245 mA
Leakage current (at 230 V, 50 Hz, full load) ^①	< 250 µA
Max. input power	54 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^①	93 %
λ (at 230 V, 50 Hz, full load)	0.98
Typ. input current in no-load operation	24 mA
Typ. input power in no-load operation	0.6 W
In-rush current (peak / duration)	32 A / 240 µs
THD (at 230 V, 50 Hz, full load)	< 10 %
Starting time (at 230 V, 50 Hz, full load)	< 500 ms
Starting time (DC mode)	< 500 ms
Switchover time (AC/DC) ^③	< 0.2 s
Turn off time (at 230 V, 50 Hz, full load)	< 50 ms
Output current tolerance ^④	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 35 %
Output LF current ripple (< 120 Hz)	± 5 %
Output P _{ST_LM}	≤ 1
Output SVM	≤ 0.4
Max. output voltage (U-OUT)	250 V
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Burst / surge peaks output side against PE	2 kV
Type of protection	IP20
Life-time	up to 100,000 h
Dimensions L x W x H	280 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, Acc. to EN 50172, Acc. to EN 60598-2-22

Specific technical data

Type	Output ^⑥ current	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)	t _c point max.	Ambient temperature T _a	I-SELECT 2 resistor ^⑥ value
LC 50W 100-400mA flexC Ip EXC	100 mA	60 V	140 V	14.0 W	16.5 W	82 mA	70 °C	-25 ... +60 °C	–
LC 50W 100-400mA flexC Ip EXC	125 mA	50 V	140 V	17.5 W	20.3 W	97 mA	70 °C	-25 ... +60 °C	40.00 kΩ
LC 50W 100-400mA flexC Ip EXC	150 mA	50 V	140 V	21.0 W	23.7 W	112 mA	70 °C	-25 ... +60 °C	33.33 kΩ
LC 50W 100-400mA flexC Ip EXC	175 mA	50 V	140 V	24.5 W	27.5 W	128 mA	70 °C	-25 ... +60 °C	28.57 kΩ
LC 50W 100-400mA flexC Ip EXC	200 mA	50 V	140 V	28.0 W	30.9 W	142 mA	75 °C	-25 ... +60 °C	25.00 kΩ
LC 50W 100-400mA flexC Ip EXC	225 mA	50 V	140 V	31.5 W	34.6 W	158 mA	75 °C	-25 ... +60 °C	22.22 kΩ
LC 50W 100-400mA flexC Ip EXC	250 mA	50 V	140 V	35.0 W	37.6 W	171 mA	75 °C	-25 ... +60 °C	20.00 kΩ
LC 50W 100-400mA flexC Ip EXC	275 mA	50 V	140 V	38.5 W	41.5 W	187 mA	75 °C	-25 ... +60 °C	18.18 kΩ
LC 50W 100-400mA flexC Ip EXC	300 mA	50 V	140 V	42.0 W	46.7 W	208 mA	75 °C	-25 ... +60 °C	16.67 kΩ
LC 50W 100-400mA flexC Ip EXC	325 mA	50 V	140 V	45.5 W	48.9 W	217 mA	70 °C	-25 ... +55 °C	15.38 kΩ
LC 50W 100-400mA flexC Ip EXC	350 mA	50 V	140 V	49.0 W	51.2 W	227 mA	70 °C	-25 ... +55 °C	14.29 kΩ
LC 50W 100-400mA flexC Ip EXC	375 mA	50 V	133 V	50.0 W	54.0 W	239 mA	70 °C	-25 ... +55 °C	13.33 kΩ
LC 50W 100-400mA flexC Ip EXC	400 mA	50 V	125 V	50.0 W	53.6 W	238 mA	70 °C	-25 ... +55 °C	0.00 kΩ

① Depending on the selected output current.

② Valid for Drivers with „DC new“ on the label. For old version typ. current (220 V, 0 Hz, full load, 50 % dimming level) is 115 mA.

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

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). Calculated resistor value.