

Driver LC 100W 1100–2100mA flexC SR EXC

excite series

**Product description**

- _ Independent constant current LED Driver
- _ Dimmable via ready2mains Gateway
- _ Dimming range 15 – 100 % (Depending on loa, for details refer to chapter 4.7 Dimming in data sheet.)
- _ Adjustable output current between 1,100 and 2,100 mA via ready2mains Programmer or I-select 2 plugs
- _ Max. output power 100 W
- _ Up to 92 % efficiency
- _ Nominal life-time up to 100,000 h
- _ 5-year guarantee

Housing properties

- _ Casing: polycarbonate, white
- _ Type of protection IP20
- _ Strain relief with loop through function

Interfaces

- _ ready2mains (configuration and dimming via mains)
- _ Terminal blocks: 0° / 45° push terminals (input / output)

Functions

- _ Adjustable output current in 1-mA-steps (ready2mains, I-select 2)
- _ Dimmable via ready2mains interface
- _ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range)
- _ Suitable for emergency escape lighting systems acc. to EN 50172
- _ For cable cross-sections up to 2.5 mm²

Benefits

- _ Application-oriented operating window for maximum compatibility
- _ Best energy savings due to high efficiency and dimming via ready2mains
- _ Flexible configuration via ready2mains and I-select 2
- _ No tools required for installation

Typical applications

- _ For applications in downlight, panel and low Bay / high Bay luminaires

Website
<http://www.tridonic.com/28001573>


Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

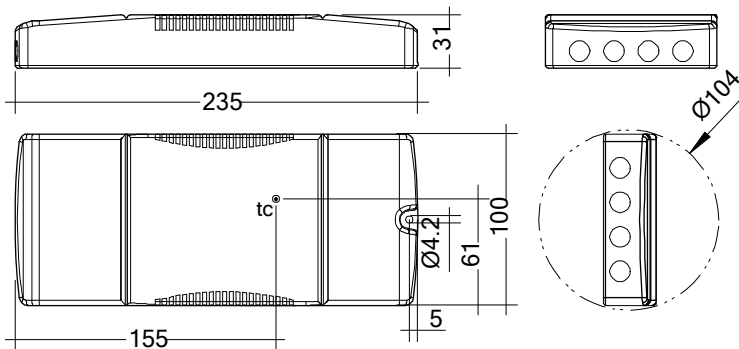


High bay

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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 100W 1100-2100mA flexC SR EXC	28001573	10 pc(s).	300 pc(s).	0.351 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) ^{①②}	482 mA
Typ. current (220 V, 0 Hz, full load, 66 % dimming level) ^②	342 mA
Leakage current (at 230 V, 50 Hz, full load) ^{①②}	< 250 µA
Max. input power	109 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	92 %
λ (at 230 V, 50 Hz, full load) ^①	0.95C
Typ. input current in no-load operation	60 mA
Typ. input power in no-load operation	0.111 W
In-rush current (peak / duration)	50.6 A / 210 µs
THD (at 230 V, 50 Hz, full load) ^①	< 10 %
Starting time (at 230 V, 50 Hz, full load) ^①	< 500 ms
Starting time (DC mode)	< 500 ms
Switchover time (AC/DC)	< 0.3 s
Turn off time (at 230 V, 50 Hz, full load)	< 50 ms
Output current tolerance ^{①③}	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 35 %
Output LF current ripple (< 120 Hz)	± 5 %
Max. output voltage (U-OUT)	60 V
Dimming range ^④	15 – 100 %
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Burst / surge peaks output side against PE	< 500 V
Type of protection	IP20
Dimensions L x W x H	235 x 100 x 31 mm

Approval marks

IP20 SELV

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 current ^②	Min. forward voltage	Max. forward voltage	Max. output power	Typ. power consumption ^④ (at 230 V, 50 Hz, full load)	Typ. current consumption ^④ (at 230 V, 50 Hz, full load)	tc point max.	Ambient temperature ^⑤ ta	I-select 2 resistor value ^⑥
LC 100W 1100-2100mA flexC SR EXC	1,100 mA	20 V	54.0 V	59.4 W	65.1 W	297 mA	80 °C	-25 ... +50 °C	–
LC 100W 1100-2100mA flexC SR EXC	1,150 mA	20 V	54.0 V	62.4 W	68.1 W	309 mA	80 °C	-25 ... +50 °C	4.35 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,200 mA	20 V	54.0 V	64.8 W	71.4 W	323 mA	80 °C	-25 ... +50 °C	4.17 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,250 mA	20 V	54.0 V	68.0 W	74.0 W	334 mA	80 °C	-25 ... +50 °C	4.00 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,300 mA	20 V	54.0 V	70.2 W	77.0 W	347 mA	80 °C	-25 ... +50 °C	3.85 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,350 mA	20 V	54.0 V	73.3 W	79.7 W	358 mA	80 °C	-25 ... +50 °C	3.70 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,400 mA	20 V	54.0 V	75.6 W	82.1 W	369 mA	80 °C	-25 ... +50 °C	3.57 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,450 mA	20 V	54.0 V	78.2 W	84.8 W	380 mA	80 °C	-25 ... +50 °C	3.45 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,500 mA	20 V	54.0 V	81.0 W	88.1 W	394 mA	80 °C	-25 ... +50 °C	3.33 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,550 mA	20 V	54.0 V	83.5 W	90.5 W	404 mA	80 °C	-25 ... +50 °C	3.23 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,600 mA	20 V	54.0 V	86.4 W	94.1 W	420 mA	80 °C	-25 ... +50 °C	3.13 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,650 mA	20 V	54.0 V	89.1 W	96.5 W	430 mA	80 °C	-25 ... +50 °C	3.03 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,700 mA	20 V	54.0 V	91.8 W	99.3 W	442 mA	80 °C	-25 ... +50 °C	2.94 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,750 mA	20 V	54.0 V	93.7 W	101.6 W	451 mA	80 °C	-25 ... +50 °C	2.86 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,800 mA	20 V	54.0 V	97.2 W	105.7 W	469 mA	80 °C	-25 ... +50 °C	2.78 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,850 mA	20 V	54.0 V	99.8 W	107.9 W	479 mA	80 °C	-25 ... +50 °C	2.70 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,900 mA	20 V	52.6 V	99.9 W	107.8 W	478 mA	80 °C	-25 ... +50 °C	2.63 kΩ
LC 100W 1100-2100mA flexC SR EXC	1,950 mA	20 V	51.3 V	99.8 W	108.0 W	479 mA	80 °C	-25 ... +50 °C	2.56 kΩ
LC 100W 1100-2100mA flexC SR EXC	2,000 mA	20 V	50.0 V	100.0 W	108.1 W	480 mA	80 °C	-25 ... +50 °C	2.50 kΩ
LC 100W 1100-2100mA flexC SR EXC	2,050 mA	20 V	48.8 V	100.0 W	108.4 W	481 mA	80 °C	-25 ... +50 °C	2.44 kΩ
LC 100W 1100-2100mA flexC SR EXC	2,100 mA	20 V	47.6 V	100.0 W	108.5 W	482 mA	80 °C	-25 ... +50 °C	0.00 kΩ

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Output current is mean value.

④ The min. achievable dimming level depends on the connected load. For details refer to chapter 4.7 Dimming in data sheet.

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).