

Driver LC 38W 500-700mA flexC Ip ADV

advanced series SELV



Product description

- _ LED Constant current LED Driver for luminaire installation
- _ New version DC operating with EL marking
- _ For luminaires of protection class I and protection class II
- _ Output current adjustable between 500 – 700 mA
- _ Temperature protection as per EN 61347-2-13 C5e
- _ Max. output power 38 W
- _ Up to 85 % 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

- _ Terminal blocks: 45° push terminals

Functions

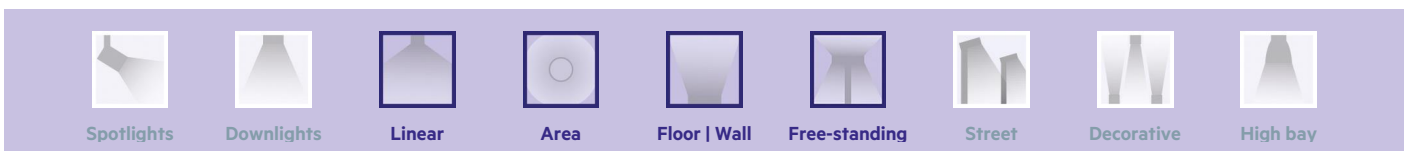
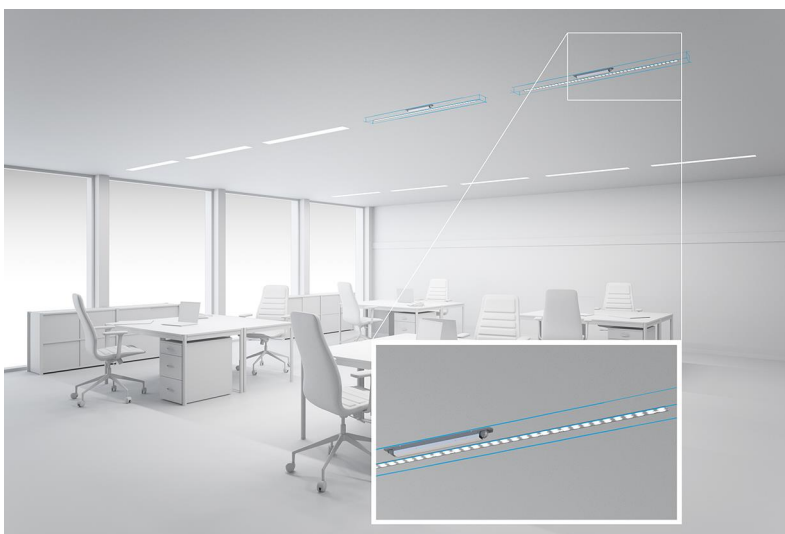
- _ Overload protection
- _ Short-circuit protection
- _ No-load protection
- _ Overtemperature protection
- _ Burst protection voltage 1 kV
- _ Surge protection voltage 1 kV (L to N)
- _ Surge protection voltage 2 kV (L/N to earth)
- _ Suitable for emergency escape lighting systems acc. to IEC 50172

Typical applications

- _ For linear/area lighting in office applications

Website

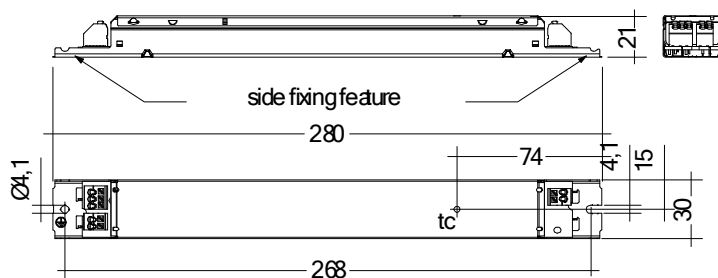
<http://www.tridonic.com/28002473>



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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 38W 500-700mA flexC Ip ADV	28002473	50 pc(s).	900 pc(s).	0.188 kg

Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V
Max. input current (at 230 V, 50 Hz, full load)	0.22 A
Typ. input current (at 230 V, 0 Hz, full load)	0.189 A
Leakage current (at 230 V, 50 Hz, full load)	< 400 µA
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Max. input power	47 W
Typ. power consumption (at 230 V, 50 Hz, full load) ^①	44,7 W
Min. output power	10 W
Max. output power	38 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^①	85 %
λ (at 230 V, 50 Hz, full load) ^①	0.95C
Output current tolerance ^{②③}	± 7.5 %
Max. output current peak ^④	≤ output current + 20 %
Max. output voltage (U-OUT)	60 V
THD (at 230 V, 50 Hz, full load)	< 8 %
Typ. current ripple (at 230 V, 50 Hz, full load)	± 5 %
Starting time (at 230 V, 50 Hz, full load)	< 500 ms
Starting time (DC mode)	< 500 ms
Switchover time (AC/DC) ^⑤	< 500 ms
Turn off time (at 230 V, 50 Hz, full load)	≤ 0.5 s
Hold on time at power failure (output)	0 s
Ambient temperature ta (at life-time 100,000 h)	40 °C
Storage temperature ts	-40 ... +80 °C
Life-time	up to 100,000 h
Dimensions L x W x H	280 x 30 x 21 mm
Hole spacing D	268 mm

Approval marks

Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, Acc. to EN 50172, Acc. to EN 60598-2-22

Specific technical data

Type	Output current ^①	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	Iout select	Resistor ^⑥
LC 38W 500-700mA flexC Ip ADV	500 mA	20 V	54 V	27.0 W	31.0 W	145 mA	70 °C	-20 ... +50 °C	0-1	ADV Type A
LC 38W 500-700mA flexC Ip ADV	550 mA	20 V	54 V	29.7 W	35.0 W	156 mA	75 °C	-20 ... +50 °C	0-1	ADV Type D
LC 38W 500-700mA flexC Ip ADV	600 mA	20 V	54 V	32.4 W	38.0 W	171 mA	75 °C	-20 ... +50 °C	0-2	ADV Type A
LC 38W 500-700mA flexC Ip ADV	650 mA	20 V	54 V	35.1 W	40.0 W	185 mA	80 °C	-20 ... +50 °C	0-2	ADV Type D
LC 38W 500-700mA flexC Ip ADV	700 mA	20 V	54 V	38.0 W	44.7 W	200 mA	80 °C	-20 ... +50 °C	-	-

① Test result at 700 mA.

② Output current is mean value.

③ Test result at default output current.

④ Test result at 25 °C.

⑤ Valid for immediate change of power supply type otherwise the starting time is valid.

⑥ Type A is a short circuit plug (0 Ω).