LL1x75-CV12

Helvar

Product code: 5574

freedom in lighting

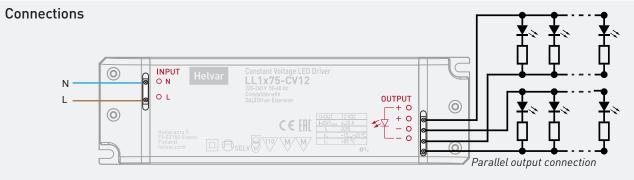
1x75W **Constant Voltage** LED driver

- Open & short circuit protection
- Over voltage protection
- 12 V Constant voltage output, max. 75 W load
- Low voltage ripple, complying with IEEE 1789-2015 recommendation
- Suitable for use in Class I and Class II luminaires, as well as for independent use
- Double insulated enclosure
- Suitable for use with LL1-CV-DA driver extension for DALI dimmable solutions and LL1-CV-SC for Switch-Control applications*
- *) Restrictions apply, see below



75 W 220-240 VAC 50-60 Hz





Attention: If using LL1-CV-DA or LL1-CV-SC control units to control LED load with this driver, make sure the total output current from the LL1x75-CV12 driver does not exceed 5 A (60 W)!

Mains Characteristics

Voltage range 198-264 VAC, Max mains current at full load 0.4 A Frequency 50 - 60 Hz Power factor 0.95 Input Power at no load 0.5 W

Load Output (SELV < 60 V)

Output voltage (U-OUT) 12 V

Ripple $< \pm 1\%$ * at $\le 120 \text{ Hz}$

PstLM < 0.06*

SVM < 0.01* *) At full power

Max output current (I-OUT) 6.25 A Max output power 75 W Efficiency, at full load, typical 0.84

Operating Conditions and Characteristics

Max.temperature at tc point 85 °C
Ambient temperature range -15...+45 °C
Storage temperature range -40...+80 °C
Maximum relative humidity no condensation
Life time 30 000h, at TC max

(90 % survival rate) ENEC, CE, and

Connections and Mechanical Data

Wire size $0.5 - 1.5 \text{ mm}^2$

Wire type solid core and fine-stranded

Maximum driver to LED wire length 5m
Weight 350 g
IP rating IP20

Please ensure that the output current does not exceed 5 A if the driver is used together with LL1xCV-DA extension unit.

Conformity

Radio Frequency Interference, acc. to EN 55015
Immunity standard, acc. to EN 61547
General and safety requirements EN 61347-1
Particular safety requirements for d.c. or a.c. supplied

electronic controlgear for LED modules, acc. to EN 61347-2-13

Performance requirements, acc to EN 62384

Mains current harmonics, acc. to EN 61000-3-2

Limits for Voltage Fluctuations and Flicker EN 61000-3-3

Current in High-Brightness LEDs for Mitigating

Recommended Practices for Modulating

Health Risks to Viewers

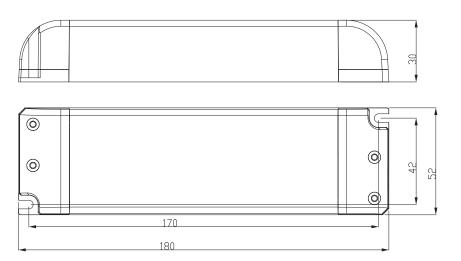
ENEC, CE, and SELV marked

Note: See page 2 for dimensions

IEEE 1789-2015

Dimensions





Wiring & connectivity

LL1x75-CV12 LED driver is suited for either in-built and independent luminaire usage. In order to have safe and reliable LED driver operation, the LED luminaires will need to comply with the relevant standards and regulations (e.g. IEC/EN 60598-1). The LED luminaire shall be designed to adequately protect the LED driver from dust, moisture and pollution. The luminaire manufacturer is responsible for the correct choice and installation of the LED drivers according to the application and product datasheets. Specifications of the LED drivers may never exceed the operating conditions as per the product datasheets.

Wiring considerations

Wire type and cross section

• Please refer to datasheets connections & mechanical data

Wiring insulation

• According to recommendations in EN 60598

Maximum wire lengths

• Please refer to datasheets connections & mechanical data

Wire connections

• Please refer to datasheets connections diagram

Miniature Circuit Breakers (MCB)

 Type-C MCB's with trip characteristics in according to EN 60898 are recommended.

Installation & operational considerations

Maximum tc temperature

• Reliable operation and lifetime is only guaranteed if the maximum to point temperature is not exceeded under the conditions of use.

Installation site

- Ensure that the LED driver does not exceed temperature higher than specified on the product datasheets.
- The general preferred installation position of LED drivers is to have the top cover facing upwards.

Quantity of drivers per miniature circuit breaker 16 A Type C

· · ·	5	- · ·	4./0	0 1 1 1
Based on I _{Cont}	Based on I _{peak}	Typ.inrush	1/2 value	Calculated
	,	current	time	energy
(pcs.)	(pcs.)	I _{peak} (A)	Δt (μs)	I _{peak} ²∆t (A²s)
33	34	29	235.0	0.149