

1x75 W Constant Voltage LED driver

- 24 V Constant voltage output
- Maximum 75 W load
- High efficiency 88%
- Driver protection Class II
- Suitable for Class I and Class II luminaires
- Suitable for independent use
- SELV output for driving Class III luminaires
- Suitable for outdoor use (IP67 enclosure)
- Suitable for use with LL1xCV-DA driver extension for DALI dimmable solutions

75 W 220-240 VAC 50-60 Hz



Functional Description

• In-built overvoltage protection, open circuit protection and short circuit protection

Mains Characteristics

198 - 264 VAC Voltage range Mains current at full load Max. 0.4 A Frequency 50 - 60 Hz Input Power at no load 0.5 W THD at full power < 10% Tested surge protection 1.2 kV L-N Typical peak inrush current 29 A*

Insulation between circuits

Mains circuit - Output (SELV) circuit Double / reinforced insulation

Load Output

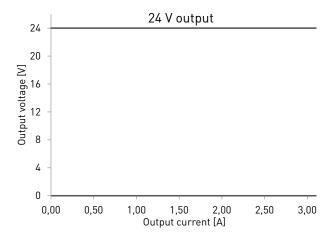
Output voltage (U-OUT) 24 V ±3% Accuracy Max output current (I-OUT) 3.125 A Max output power 75 W

V_{out}	24 V
P _{out} (max)	75 W
I _{out} (max)	3.125 A
λ at full load	> 0.95
Efficiency (η) at full load	88 %

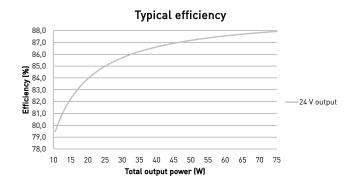
^{*} See the MCB chart on page 2 for more details

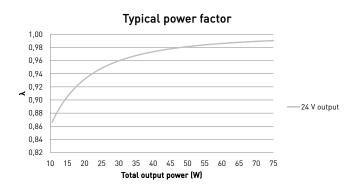


Operating window



Driver performance





Operating Conditions and Characteristics

Max.temperature at tc point Ambient temperature range Storage temperature range Maximum relative humidity Life time

80°C -15...+45 °C -40...+80 °C 100 % 30 000 h at tc max (90 % survival rate)

Quantity of drivers per miniature circuit breaker 16 A Type C

Based on I _{cont}	Based on inrush current I _{peak}	Typ. peak inrush current I _{peak}	1/2 value time, Δt	Calculated energy, I _{peak} ²∆t
29 pcs.	37 pcs.	29 A	218 µs	0.13 A ² s

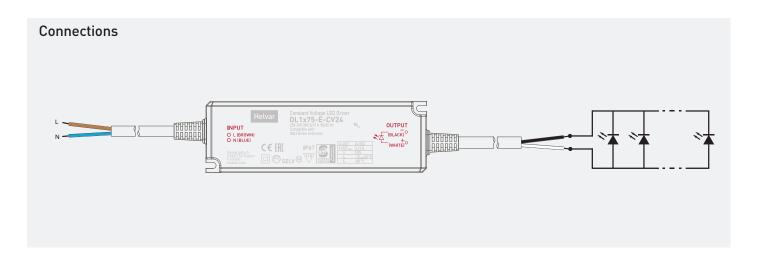
Connections and Mechanical Data

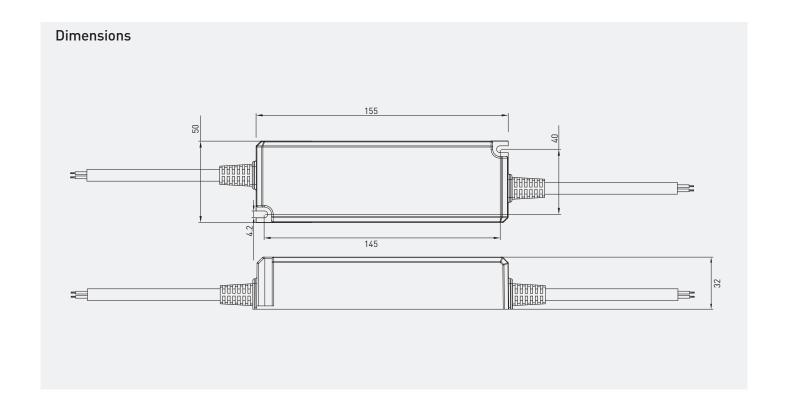
Connection wires 1.00 mm², soldered strips mains wires:

0.75 mm², soldered strips load wires:

Wire insulation According to EN 60598

Maximum driver to LED wire length 5m Weight 454 g IP67 IP rating





Information and conformity



OL1x75-E-CV24 LED driver is suited for inbuilt 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. Operating conditions of the LED drivers may never exceed the specifications as per the product datasheet.

Installation & operation

Maximum t temperature:

- The maximum ambient temperature is a guideline given for luminaire components such as LED drivers. However, integrator must always ensure proper thermal management (i.e. ventilation) so that the $t_{\underline{\ }}$ point does not exceed the $t_{\underline{\ }}$ max limit.
- \bullet Reliable operation and lifetime is only guaranteed if the $t_{_{C}}$ point temperature does not exceed the specified maximum to point temperature under the conditions of use

Installation site:

- The general preferred installation position of LED drivers for independent use is to have the top cover facing upwards
- In order to prevent condensation, relative humidity shall be low enough in relation to the ambient temperature

Conformity & standards

General and safety requirements	EN 61347-1: 2008+
	A1:2011+A2:2013
Particular safety requirements for DC or AC supplied electronic control gear for LED modules	EN 61347-2-13: 2014
Radio frequency interference	EN 55015: 2013
Immunity standard	EN 61547: 2009
Performance requirements	EN 62384: 2006+ A1:2009
Compliant with relevant EU directives	
RoHS / REACH compliant	
CE marked	

Label symbols



Safety isolating control gear with short circuit protection (SELV control gear).



Double insulated control gear suitable for independent use.



Symbol for independent control gear.



Thermally controlled control gear, incorporating means of protection against overheating to prevent the case temperature under any conditions of use from exceeding 110 °C.