OL1x100-E-CC2



- Selectable constant current output: 1400 / 2100 mA
- Maximum 101 W load
- Short circuit protection
- Open circuit protection
- Protected up to 4 kV power network fast transients
- High efficiency > 0.91
- Suitable for outdoor use IP65
- Suitable for Classes I and II luminaires, and independent use
- Output isolated from mains

100 W 220-240 VAC, 50-60 Hz





Helvar

freedom in lighting

Mains Characteristics

Voltage range	198 - 264 VAC	
Max mains current at full load 0.44 - 0.58 A		
Frequency	50 - 60 Hz	
U-OUT _{max} (abnormal)	92 V	

Load Output

Output current (I-OUT)1400 / 2100 mAMax output power101 WEfficiency, at full load, typical > 0.91

I-OUT	1400 mA	2100 mA
P-out (max)	101 W	101 W
U-OUT	30 - 72 V	30 - 48 V
λ	0.98	0.98
η @ max	0.91	0.90

Operating Conditions and Characteristics

Max.temperature at tc point85 °CAmbient temperature range-30...+60 °CStorage temperature range-40...+80 °Maximum relative humidity100 %Life time:50 000 h, at

85 °C -30...+60 °C -40...+80 °C 100 % 50 000 h, at 75 °C TC 30 000 h, at 85 °C TC (90 % survival rate)

Connections and Mechanical Data

Connection wires length	0.3 m
Maximum driver to LED wire length	5 m
Wiring insulation	According to EN 60598
Weight	750 g
IP rating	IP65

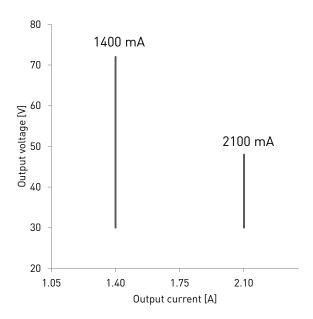
Conformity & Standards

General and safety requirements	EN 61347-1		
Particular safety requirements for DC or AC supplied			
electronic controlgear for LED modules, acc. to	EN 61347-2-13		
Thermal protection class	EN61347, C5e		
Mains current harmonics	EN 61000-3-2		
Limits for Voltage Fluctuations and Flicker	EN 61000-3-3		
Radio Frequency Interference	EN 55015		
Immunity standard	EN 61547		
Performance requirements	EN 62384		

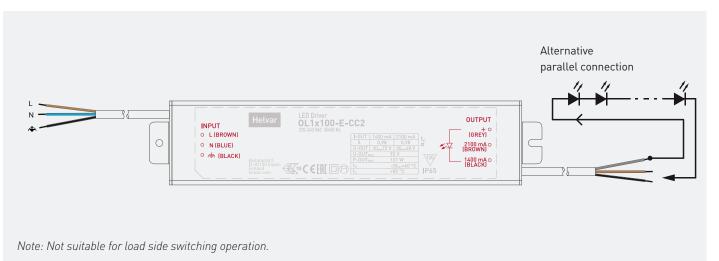
Compliant with relevant EU directives ENEC & CE marked

Load output





Connections

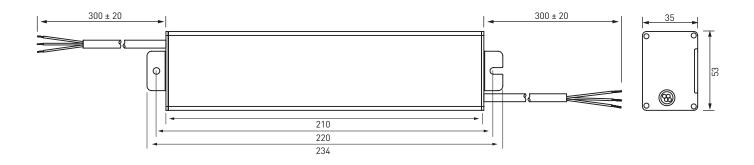


Quantity of drivers per miniature circuit breaker 16 A Type C

	Quantity of drivers per miniature circuit breaker 16 A Type C		Typical inrush current	1/2 value time	Calculated energy
	Based on I _{Cont}	Based on I _{peak}	I _{peak} (A)	∆t (µs)	l _{peak} ²∆t (A²s)
OL1x100-E-CC2	19	12	25	690	0.28890







Installation & operation

OL1x100-E-CC2 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 drivers 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 datasheets.

Installation & operational considerations

Miniature Circuit Breakers (MCB)

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

LED driver earthing

- LED drivers are designed to support different luminaire classifications, like Class I or Class II fittings (no earth required). Please check the individual LED driver type for its exact safety class rating.
- For Helvar LED drivers to have a reliable operation and EMC performance, the luminaires are expected to have an earth connection. Earth connection can be left out if luminaire safety is guaranteed by its construction.
- When using a SELV-rated LED driver, then the SELV driver output has to be insulated from the luminaire earth connection (ref. EN60598-1 luminaire standard)

Maximum tc temperature

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