

Ref: 38.029

Features:

- Surges between L/N: up to 1 kV. Surges between L/N-PE: up to 2 kV.
- Low-profile metal casing with white cover
- Protective features overtemperature
- Protective features short-circuit
- Protective features overload
- Protective features no-load
- Protective features input voltage range
- Protection class I and Protection class II



Technical data	Power (W)	25W
	Voltage (V)	220V - 240V
	Min. forward voltage	25V
	Max. forward voltage	50V
	Output current	100mA - 500mA
	Typ. power consumption (at 230V, 50Hz full load)	133mA
	Tc point máx.	75°C
	Ambient temperature	-25°C - +60°C
Common data	AC voltage range	198V - 264V
	DC voltage range	176V - 280V
	Mains frequency	0Hz / 50Hz / 60Hz
	Overvoltage protection	320V AC, 48h
	Typ. current (at 230 V, 50 Hz, full load)	130mA
	Leakage current (at 230 V, 50 Hz, full load)	< 250 μ A
	Max. input power	29.2W
	Typ. efficiency (at 230 V / 50 Hz / full load)	87%
	λ (at 230 V, 50 Hz, full load)	0.95
	Typ. input current in no-load operation	23mA
	Typ. input power in no-load operation	0.53W
	In-rush current (peak / duration)	21A / 126 μ s
	THD (at 230 V, 50 Hz, full load)	< 10%
	Starting time (at 230 V, 50 Hz, full load)	< 500ms
	Starting time (DC mode)	< 500ms
	Switchover time (AC/DC)	< 0.2s
	Turn off time (at 230 V, 50 Hz, full load)	< 50ms
	Output current tolerance	\pm 5%
	Max. output current peak (non-repetitive)	\leq corriente de salida + 35%
	Output LF current ripple (< 120 Hz)	\pm 5%
	Output P _{st} LM	\leq 1
	Output SVM	\leq 0.4
Max. output voltage	58V	
Surge voltage at output side (against PE)	< 500V	
Type of protection	IP20	
Other	Dimensions	280x30x21mm
	Weight	0.169kg
	Guarantee	5 años



Measurements:

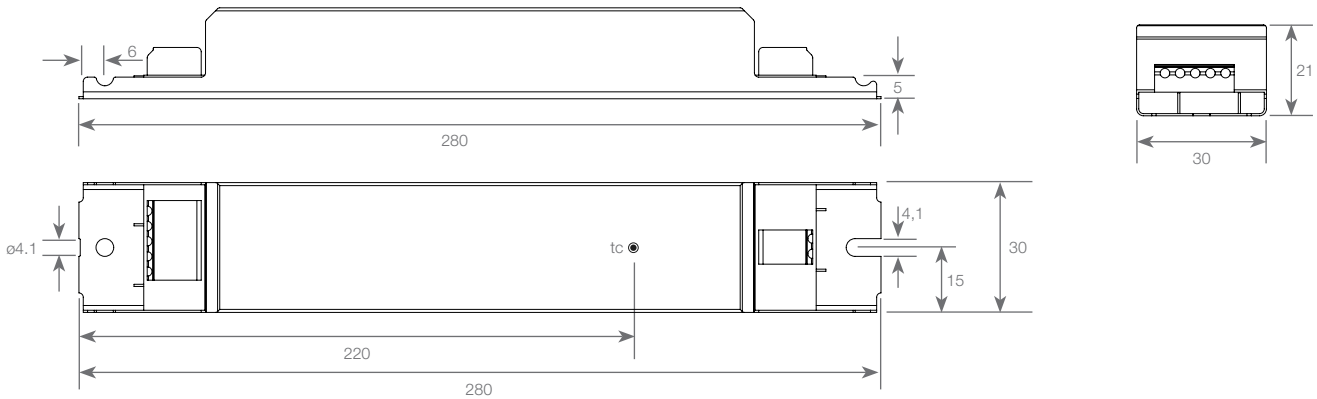
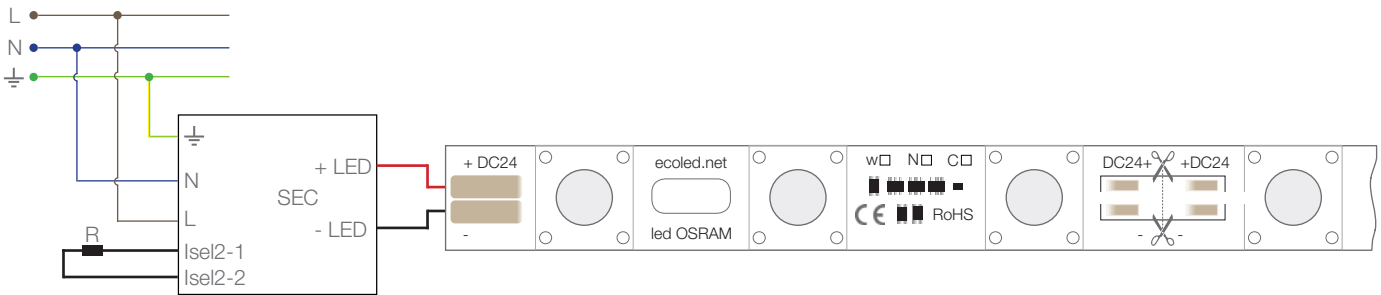
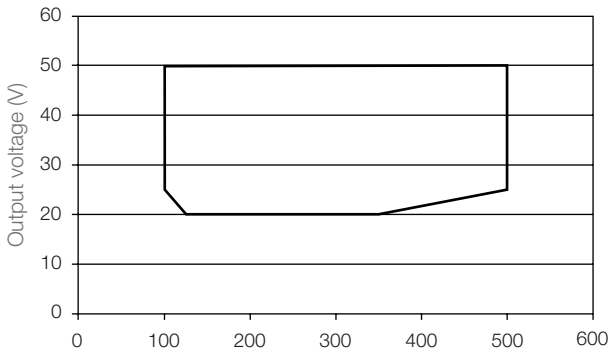


Diagram:

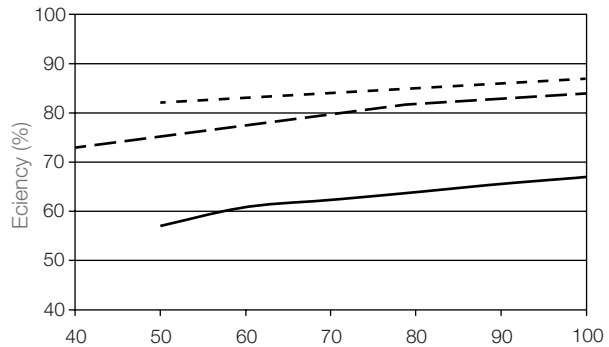


Type performance graphs / Type EDXe

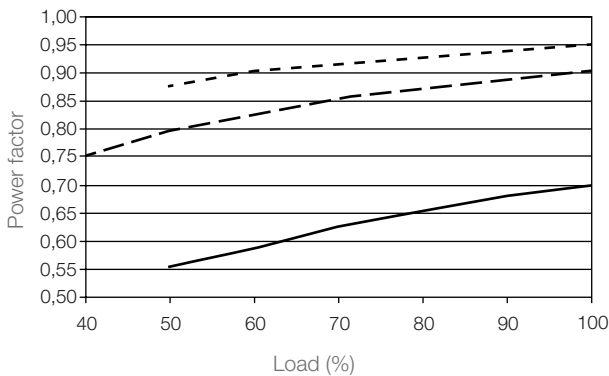
Working area



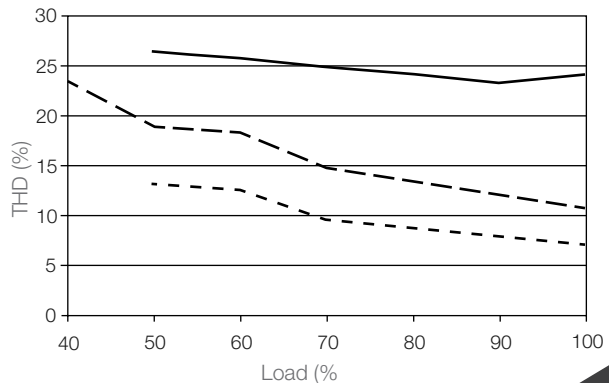
Efficiency vs load



Power factor vs load



THD vs load



Assembly and Safety Information

Applied standards:	Estándares para instalaciones de iluminación de emergencia:
EN 55015	60598-2-22
EN 61000-3-2	
EN 61000-3-3	
EN 61347-1	Estándares for use in central battery systems:
EN 61347-2-13	EN 50172
EN 62384	
EN 61547	

Wiring guidelines:

- Run the secondary lines separately from the mains connections and lines to achieve good EMC performance.
- The max. secondary cable length is 2 m (4 m circuit).
- For good EMC performance, keep the led wiring as short as possible.
- Secondary switching is not permitted
- The led Driver has no inverse-polarity protection on the secondary side. Wrong polarity can damage led modules with no inverse-polarity protection.
- Wrong wiring of the led Driver can lead to malfunction or irreparable damage.
- To avoid the damage of the Driver, the wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc.).

Earth connection:

The earth connection is conducted as protection earth (PE). If the led Driver will be earthed, protection earth (PE) has to be used. There is no earth connection required for the functionality of the led Driver.

Earth connection is recommended to improve following behaviour:

- Electromagnetic interferences (EMI)
- Transmission of mains transients to the led output

In general it is recommended to earth the led Driver if the led module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

Function: adjustable current:

The output current of the led Driver can be adjusted in a certain range. For adjustment there are two options available.

Option 1: I-SELECT 2: by inserting a suitable resistor or third party resistor into the I-SELECT 2 interface, the current value can be adjusted. The relationship between output current and resistor value can be found in the chapter "Accessories I-SELECT 2 Plugs".

- Please note that the resistor values for I-SELECT 2 are not compatible with I-SELECT (generation 1). Installation of an incorrect resistor may cause irreparable damage to the led module(s).

Option 2: ready2mains: adjustment is done by the ready2mains programmer and the corresponding configuration software (see ready2mains documentation).

- Current adjustment can only be done five times over ready2mains. To program the led Driver a connected load is necessary that is within the operating window of the led Driver.

Ready2mains – configuration:

The ready2mains interface enables the configuration of the mostly used parameters via the mains wiring.

In the case of EXC led Driver, it is the led output current as well as an optional lockbit to prevent any accidental configuration at a later stage.

The configuration is done via the ready2mains Programmer, either directly at the Programmer itself or via a respective software tool. For details on the configuration via ready2mains see the technical information of the Programmer and its tools.

Short-circuit behaviour:

In case of a short-circuit at the led output the led output is switched off. After restart of the led Driver the output will be activated again. The restart can be done via mains reset.

No-load operation:

The led Driver will not be damaged in no-load operation. The output will be deactivated and is therefore free of voltage. If a led load is connected the device has to be restarted before the output will be activated again.

Overload protection:

If the output voltage range is exceeded the led Driver turns off the led output. After restart of the led Driver the output will be activated again. The restart can be done via mains reset.

Overtemperature protection:

The led Driver is protected against temporary thermal overheating. If the temperature limit is exceeded the output current of the led module(s) is reduced. The temperature protection is activated above t_c max. The activation temperature differs depending on the led load. On DC operation this function is deactivated to fulfill emergency requirements.