

Datasheet & Operating instructions

Model: LS-12C500

LED power supply for 500 mA constant current 15...25 Vdc, 7.5...12.5 W, IP20, independent installation, non-dimmable Flicker-free according to IEEE 1789











Safety Instructions

- Be sure to switch off the mains voltage before assembly and disassembly.
- Please keep this product away from children and pets.
- Do not place this product under any mechanical stress.
- Handle this product with care. Jolts, impact or falling from even a low height could damage this product and jeopardize its safe operation.
- If this product is visibly damaged / no longer works properly / has been stored for extended periods in poor ambient conditions, please take the product out of service and protect it from any unintentional/accidental use.
- Compare the technical data of all products used, these must be compatible to each other and be within the specified range. Also observe the safety and operating instructions of any other devices which are connected to this product.
- Make sure that the total power of the connected LED lighting does not exceed the maximum output power of the product (see electrical data).
- Only operate the product within the specified ambient temperature (ta) range (see operating condition).
- Only operate the product in an environment that corresponds to its IP protection class and protect the product from extreme temperatures, direct sunlight, strong shocks, flammable gases, vapors & solvents.
- Never immerse the product in water or other liquids.
- Consult an expert if you have any doubts about the operation, safety or connection of the product.
- Only have maintenance, adjustment and repair work carried out by an expert or at a qualified workshop.
- If you have questions which remain unanswered by these operating instructions, contact our technical support service or other technical personnel.

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee



Intended use

The LED power supply is a power supply device specially designed for LED lighting. For safety and approval purposes (CE), you must not rebuild and/or modify this product. If you use this product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuits, fire, electric shock, etc. Read the following notes and the datasheet carefully and completely, they are part of the product and contain important information. Please keep this document and only pass the product on to third parties together with this document.

This product complies with statutory national and European requirements. All company names and product names contained are trademarks of their respective owners.

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Disposal



Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product according to the relevant statutory regulations. You thus fulfil your statutory obligations and contribute to the protection of the environment.





Exploded view





Electrical data

Rated input voltage	220240 Vac	
Range of input voltage	198264 Vac	
Power factor (λ)	0.85 C	Full Load, 220240 Vac
Input current	0.12 A max.	Full Load, 198 Vac
Inrush current	10 A max.	300 µs@230 V, Full Load,
		50%lpk-50%lpk
Leakage current	< 0.7 mA	240 Vac
Output voltage	1525 Vdc	
Output current	500 mA	
Output power (nominal)	7,512.5 W	
Efficiency	≥ 83 %	
Life time	> 30,000 h	45 °C
Dimmable	No	

Operating condition

Operating temperature range (ta)	-20+45 °C
Max. Surface temperature (tc)	75 °C
Permitted rel. humidity	2090 %
Protection class	II
Type of protection	IP20

Protection

Short circuit protection	Yes *	
Overload protection	Yes *	103140%
Overvoltage protection	Yes *	> 29 Vdc

^(*) The output shuts off and will be resumed, after problem is removed and led driver is restarted.



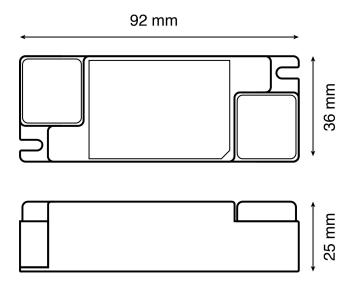
Standards & Certificates

Standards	EN 61347-1, EN 61347-2-13, EN62384
	EN 62493, EN 55015, EN 61547
	EN 61000-3-2, EN 61000-3-3
Marking	CE, UKCA
RoHS compliant	Yes

Installation

Type of installation	Independent installation	
Type of connection	Spring-loaded terminal	
Cable cross-section, input side	0.51.5 mm²	
Cable cross-section, output side	0.51.5 mm²	
Cable preparation length, input side	68 mm	
Cable preparation length, output side	68 mm	
Circuit breaker (230V)	10A Typ B: 80 pc.	10A Typ C: 80 pc.
	16A Typ B: 128 pc.	16A Typ C: 128 pc.
	20A Typ B: 160 pc.	20A Typ C: 160 pc.

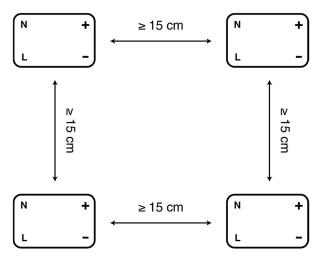
Dimension





Connection





Make sure there is a clearance of at least **15cm** between the LED driver and other heat sources, e.g., other LED power supplies, lamps/LEDs etc.

A distance of at least **5cm** between the LED power supply and other non-heat-producing objects/surfaces is required.



Have the product installed by a qualified expert (e.g., electrician) who is familiar with all applicable regulations! When handling mains voltage improperly, you will not only endanger yourself but also others! If you do not have the relevant expert knowledge, do not install the product yourself, but have it done by an expert.



Installation

- compare all products to be compatible to each other.
- The product must be completely free of voltage for installation.
- Turn off the corresponding circuit breaker and/or automatic fuse to remove all voltage from the power circuit. Secure them against unauthorized restart, e.g., by installing a warning sign. Also switch off the relevant circuit breaker in order to disconnect all poles of the mains cable from the mains supply.
- First, connect your LED lighting to the screw terminals / spring terminals / cables on the secondary side (SEC), ensuring correct polarity. Connect the mains supply line to the corresponding screw terminals / spring terminals / cables on the primary side of the LED driver (PRI). Make sure that all connections are firmly tightened.
- Install the product using the two mounting openings to an even, stable surface.
- Make sure not to damage any cables, wiring or pipes that may run beneath the installation surface when installing the product.
- Finally, make sure the LED driver is correctly connected; do not turn on the power supply until you have verified that the product is installed correctly
- The LED driver is operational as soon as voltage is applied to the primary side.