

LED Power Supplies

Safety notes

- The electrical connection must be carried out by qualified electricians only. Make sure that the circuit is de-energized before connecting. If any malfunction or damage is detected after switching on, the supply voltage must be switched off immediately.
- Only use original parts from the manufacturer for maintenance and repair.
- Do not make any modifications. If subsequent modifications are carried out on the power supplies, liability will pass on to the person carrying out the modifications.
- The manufacturer accepts no liability for damage caused by improper use or extreme external influences. These are for example:
 - **Mistakes during installation of the power supplies:**
 - mechanical modifications to the housing, e.g. by drilling or grinding
 - excessive mechanical stress, e.g. due to bending or squeezing
 - overtemperature due to inadequate clearances
 - heat accumulation due to thermally insulated installation
- **Environmental and natural influences:**
 - overheating due to excessive ambient temperatures
 - chemical influences from the environment (e.g. sulphur)
 - overvoltage due to lightning
- **Disturbances in the power grid:**
 - mains over- or undervoltage, voltage imbalance
 - transient overvoltage in the grid or due to contact problems
 - ripple control signals outside the specified limit values

Keep these instructions with the inspection documentation of the system.

Intended use

- Operation of LED circuit boards in parallel connection within the respective limits specified in the data sheet
- The power supply is intended as a component to be installed in electrical systems by qualified personnel.

Unpacking and checking the content

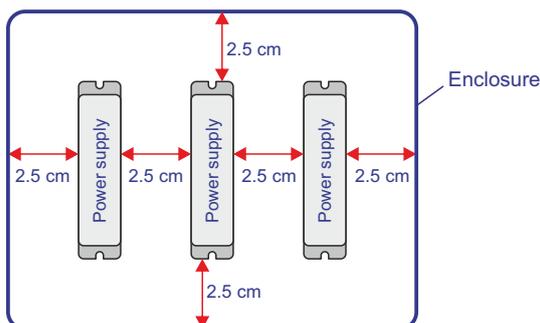
The packaging must be opened in such a way that the content cannot be damaged. Particular care must be taken when using sharp tools. After unpacking, immediately check the content for damage and compliance with the delivery note. Any defects or deficiencies must be notified to us immediately.

Mechanical installation

- **Surface:** A solid and flat supporting surface is required to ensure good heat dissipation.
- **Fixing:** With 4 mm screws in the cut-outs provided.
- The ambient temperature must not exceed the specified limit during operation.

Avoid accumulation of heat

- When installing the power supplies, make sure that any accumulation of heat is avoided.
- The **minimum clearance** between individual power supplies must be **2.5 cm all round**. Sufficient air circulation must be ensured. Exposure to additional heat by sunlight must be avoided. The power supplies can be installed directly on metal surfaces to ensure better heat dissipation.



Commissioning

- Prior to commissioning the power supply with LED load, the responsible qualified electrician must make sure that the rated output voltage of the power supply matches the rated voltage of the LED circuit boards.
- **Caution: If the power supply voltage is higher than the rated voltage of the LED circuit boards, the LEDs will be heavily overloaded, which may damage both the LED circuit boards and the power supply.**
- Prior to commissioning the power supply with LED load, the responsible qualified electrician must make sure that the power supply will not be overloaded. This can be done using the data specified on the type plate or in the data sheet of the LED circuit boards. Overloading will occur when the sum of the LED circuit board currents exceeds the rated output current of the power supply.
- **Caution: If the current flowing to the LED circuit boards is higher than the rated current of the power supply, the power supply will be overloaded and may be damaged.**
- The LED circuit boards must only be connected in a de-energized state. The mains voltage must not be switched on before the electrical connections are complete and the contacts have been checked.
- **Caution: The electrical connections (terminals) must be made and checked with great care. Due to the high currents and low voltage poor contact within the terminals can lead to creepage currents which can cause a fire.**
- The power supply housing must not be covered with paint. The type plates must always remain legible and may not be removed or covered after installation.
- Mechanical modification of the power supplies is not permitted and will void the warranty.
- The connections of the power supplies are not protected (degree of protection IP00, even if the power supply itself is IP67-compliant) and must be installed in such a way that the degree of protection required at the installation location (i.e. within the protective enclosure, if applicable) is ensured. The connecting cables attached to the power supply are not longitudinally watertight. The types of cables attached to the power supply according to the data sheet are approved for protected installation (mechanical protection, UV protection) only.
- Protective enclosures must be provided with suitable means to drain water (and condensate).
- The power supplies must be fixed safely and must not be used as fixing point for other components (including cables).