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Installation manual for 12V indoor 5050 SMD LED strips

Thank you for shopping at LEDcentre.uk.com.

We would like to help your electrician with the installation.

Performance: 60 LED / metre: 12W; 48 LED / metre: 7.2W
Operating Voltage: 12V DC, constant voltage
Voltage tolerance: 10-15V DC.
Operating the lights with batteries (ship, boat, yacht, caravan, van) voltage may go up while the battery is being charged. Strip lights are not affected by higher voltage within the tolerance rate for up to five hours.
Maximum length: 5 metre, separate, parallel power connection required for every 10 metre strip.
IP rating: IP55 – splash proof, for indoor use
Transformers: Use our LED driver/power supply only.
To calculate the required output of the LED driver, use the details above. (Power consumption of the LED strip light / metre multiplied by the length used.)
Batteries: The advantage of the SMD LED products is that they operate at 12V DC, so 12V batteries are suitable for running them. If the charging of the battery is not regulated, it is advisable to include a voltage regulator within the system for the long lifespan of the lights.
The strip lights can be operated for up to 12 hours a day. It is not suitable for constant run.

Please note: Electronic transformers ruin the LED lights. If the light is damaged when used with unsuitable transformer, it looses its warranty.

There are cut points at every 3 LED units, positive and negative poles are marked and the soldering points are already on the strip. The black arrow symbols the positive pole (red wire) and the G, R and B marked ends soldered together are the negative poles (black wire). Do not swap polarity as LED strips are polarity sensitive!
If you are connecting multiple LED strips which are some distance apart, your wiring may be affected by a voltage drop due to the length of the wires. Depending on the distance, you may have to increase the thickness of the wires to reduce the voltage drop. The further apart the lights, are the thicker the wires must be. Alternatively, you might consider using multiple wires in parallel instead of a single thick wire.

Our IP55 LED strip has 3M adhesive tape on its back, so fixing the light is very easy.

The mains supply must always be isolated prior to installation. The overall electrical installation must conform to the relevant regulations.

The LEDcentre does not take any responsibilities for personal injuries or damage of the goods caused by incorrect installation. All installation must be carried out by qualified persons.