



L/70 at 22K hrs: 22,000 hours to 70% of initial light output backed by a 5-year warranty means dependable, high quality LED lighting modules for the sign maker

Description

Eco-LED strip is a range of 6, 9, 12 and 14 LED rigid strip modules designed specially for the backlighting shallow light boxes and signs. And now with a lower power-consumption, easy plug-together series connection (up to 54pcs LEDs or 38Watts) but the same cut-to-length convenience and excellent wide beam angle making **E-LED** the ideal choice for backlighting indoor sign boxes.

Modules comprise high brightness, low energy and long-life (Epistar 2835 SMD) LEDs behind broad-beam lenses mounted on an aluminium heat dissipating PCB all encapsulated by a dust and touch protective coating.

Available in four lengths. **Eco-LED** strip can be cut down into shorter lengths by the user (at 83.6mm intervals and markings shown) making Eco-LED strip a very adaptable and economical lighting system for the sign maker.

Connection is by flying-lead and non-reversible plug & socket connector .

- Wide beam 160°
- Six, nine, twelve and fourteen **EPISTAR** 2835 SMD LEDs
- Cut-to-length by single LED increments
- High brightness and efficiency up to 94lumens/Watt
- Fast installation and low maintenance
- Dust and touch protective coating (IP33)
- Normal indoor applications
- Safe, low power operation (24VDC)
- 5 years warranty and 22,000 hours to 70% light output

Each module has a peel-off, self-adhesive backing and provision for screw fixing all making for a fast and secure installation.

Applications

Sign applications including sign boxes as shallow as 30mm

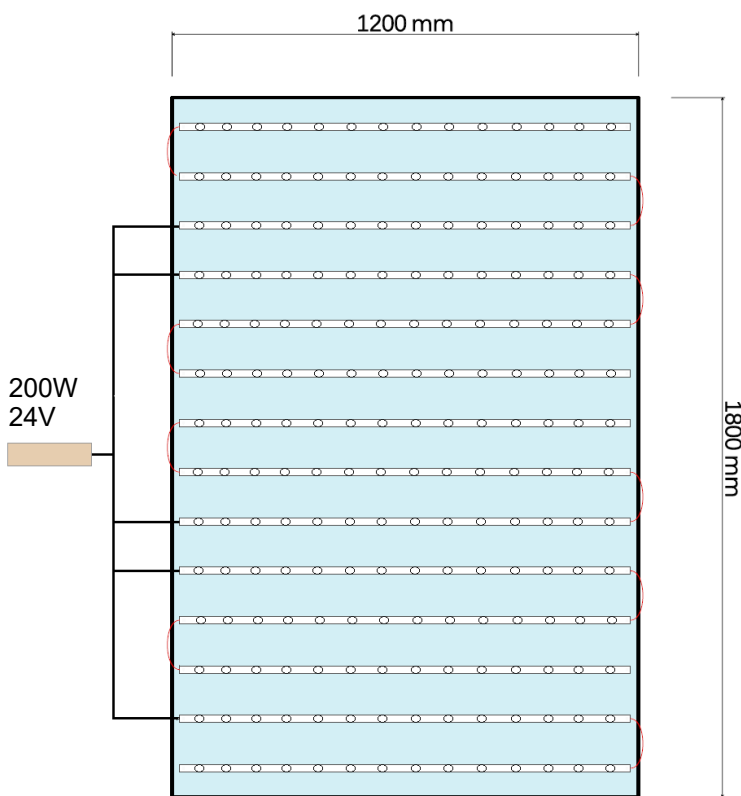


IP33 RoHS CE 

For backlighting fabric, PVC film or other backlit media

Design Guide

E-LED strip example: A 6-sheet sign box with 50mm returns



Need help with lighting a sign? Send a vector graphic pdf file of your sign or sign box to sales@oshino.co.uk subject line LED Wizard and we will do the rest.

14pcs Eco-LED modules: Oshino - E-LED 14 LED white 10.1W 24V strip - E-LED 14 24V
141.4 module Watts 160.7 circuit Watts 0.69A
1pce Power Supply: Oshino - PSU200/24/IP67/R
LED driver loaded to 70.7% and powering
4pcs series chains of 3pcs E-LED 14 each and
1pce series chain of 2pcs E-LED 14

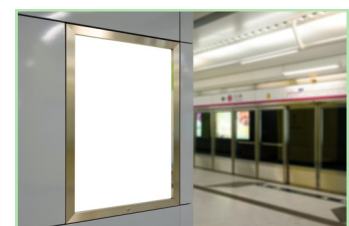
Eco-LED strip spacing guide

For backlighting media light boxes with a shallow depth

Rtn depth	>30	>40	>65	>75	>95	>105
Min. pitch between strips	80	125	150	200	250	300



Surface mounted

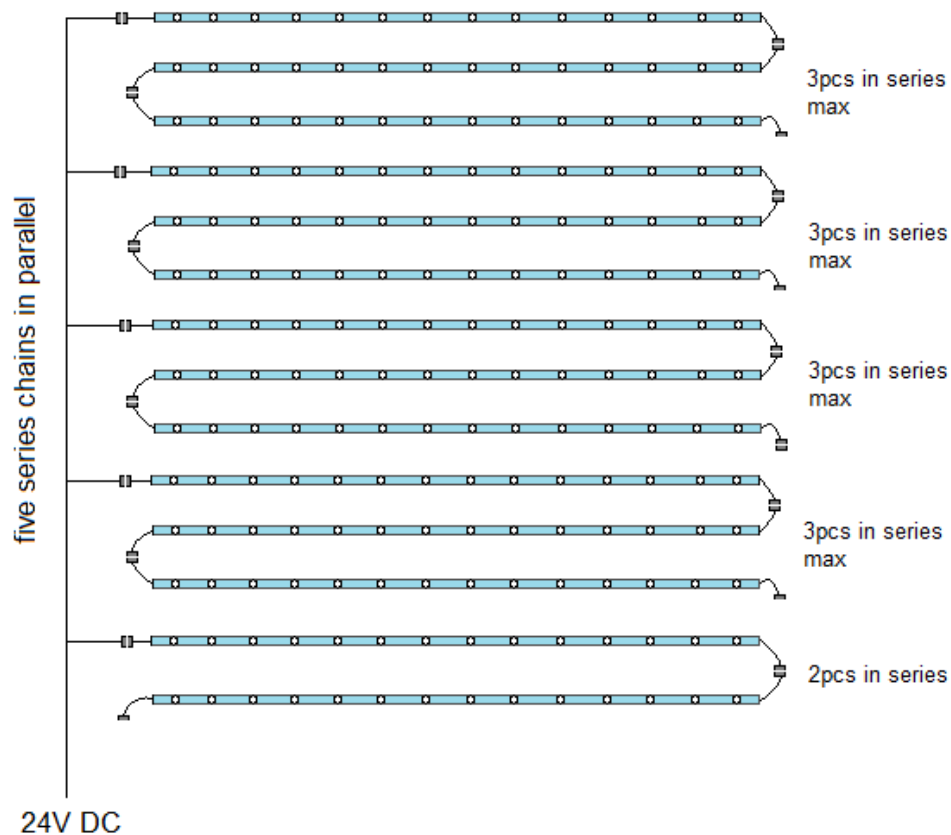


Recess mounted

Series-parallel connections

Example

E-LED 14 strips



Connectors

Supplied with non-reversible plug & socket connectors on flying leads on each end for fast and reliable series connection of up to **54pcs LEDs max.**



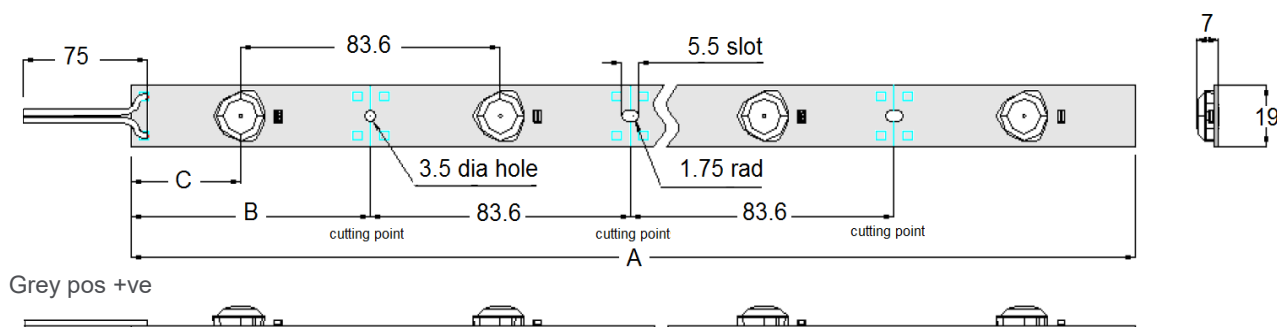
Plug together and power this many E-LED strips in a single-series chain. More E-LED strips can be connected together in additional series chain and these connected in parallel to a 24V DC supply.

Max strips in series by part no.

- **E-LED 6** 9pcs
- **E-LED 9** 6pcs
- **E-LED 12** 4pcs
- **E-LED 14** 3pcs

Or any combination of **E-LED** strips up to a maximum of **54pcs LEDs**

Dimensions & LED driver selection



LED driver & max qty modules in series - parallel	E-LED 6	E-LED 9	E-LED 12	E-LED 14
60W	11pcs	7pcs	5pcs	5pcs
100W	19pcs	13pcs	9pcs	8pcs
150W	29pcs	19pcs	14pcs	12pcs
200W	39pcs	26pcs	19pcs	16pcs
Max number of modules in series	9	6	4	3

Specifications

Optical and electrical data typical @ ta 25°C +/-2° @ 24V | Ambient operating temp. range -20 to 60°C

Colour	White			
Part. No.	E-LED 6	E-LED 9	E-LED 12	E-LED 14
Number of LEDs	6	9	12	14
Input Voltage	24VDC (min 22.8 max 25.2)			
Operating Current	0.18A (Max.)	0.27A (Max.)	0.36A (Max.)	0.42A (Max.)
Power Consumption	4.32W (Max.)	6.48W (Max.)	8.64W (Max.)	10.08W (Max.)
Dimensions	A: 495 B: 77 C: 35.2	A: 740 B: 77.4 C: 35.6	A: 990 B: 77 C: 35.2	A: 1160 B: 78.2 C: 36.4
Beam Angle	160°			
Luminous Flux / Efficacy	408lm 94lm/W	612lm 94lm/W	916lm 94lm/W	952lm 94lm/W
Colour / Temperature	6500K (range 6000-7000)			
Max. power of modules in series	38.88W			

- Notes: 1. Life-time is reduced when max operating temperature and input voltage are exceeded
 2. See website or our e-brochure for latest edition
 3. Warranty. Guaranteed against component failure and manufacturing faults for 5-years or 22,000 hours of operation which ever occurs first from invoice date.



Our Design Guide is for reference only and the ideal appearance should be checked with a lit trial | Dimensions in millimetres | Data subject to our Terms and Conditions and are liable to change without notice | E&OE | © OSHINO Sept 2020



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