

Backlighting Injection Module

0.36W series



Application data

Max connection number	100 pcs
Distance of modules (wire)	120 mm
Ambient temperature ta	-25 ~ +50 °C
Max. temperature on module tc	65 °C
Storage temperature ts	-40 ~ +85 °C
Risk group (EN 62471:2008)	1
Certification list	CE/UL/RoHS

Areas of application

- Signage and illuminated advertising.
- For 40~100mm depth light boxes and channel letters.
- Permanent outdoor use in enclosed light boxes or channel letters.

Product features

- Chain of 100 pcs LED modules.
- High efficiency LED.
- High color consistency (MacAdam 4).
- Beam characteristic: 160°.
- Protection class of LED module: IP67.
- Flexible chain can be split between any modules.
- Mounting with screw or pre-mounted double-sided adhesive tape possible.
- Nominal life-time up to 50,000 h (at tc 50°C).
- Module size:
19 x 14 x 10 mm.

Technical data

Product Name	Nominal voltage ^③	Color temperature or Wavelength ^{①②}	CRI ^{①②}	Typ. Flux per module ^{①②}	Typ. Power per module ^{①②}	Luminous efficacy
TL10-W33K-0.36W	12.0 V	2700~3300 K	>70	33.8 lm	0.36 W	94.0 lm/W
TL10-W65K-0.36W	12.0 V	5500~6500 K	>70	35.3 lm	0.36 W	98.0 lm/W
TL10-W170K-0.36W	12.0 V	8000~17000 K	>70	35.3 lm	0.36 W	98.0 lm/W

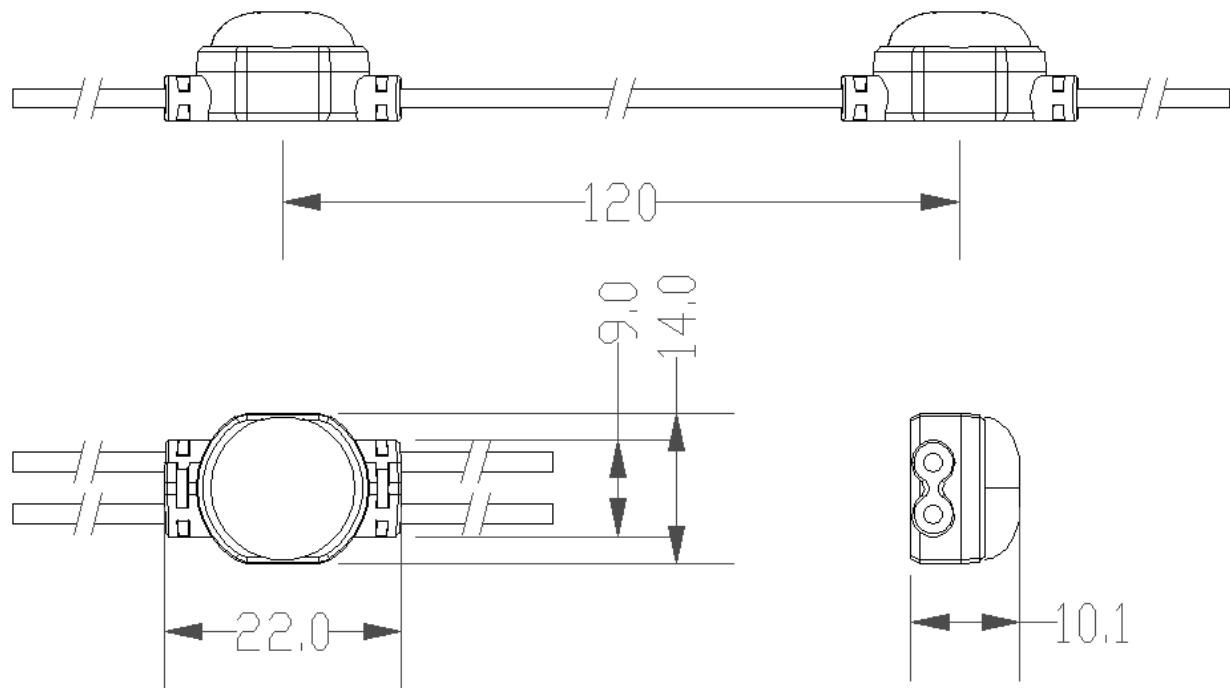
① Tolerance range for optical and electrical data: -15/+15 %.

② All value @ ta=25°C.

③ Tolerance range for the supply voltage: 12 V: ±5 %.

Product Specification

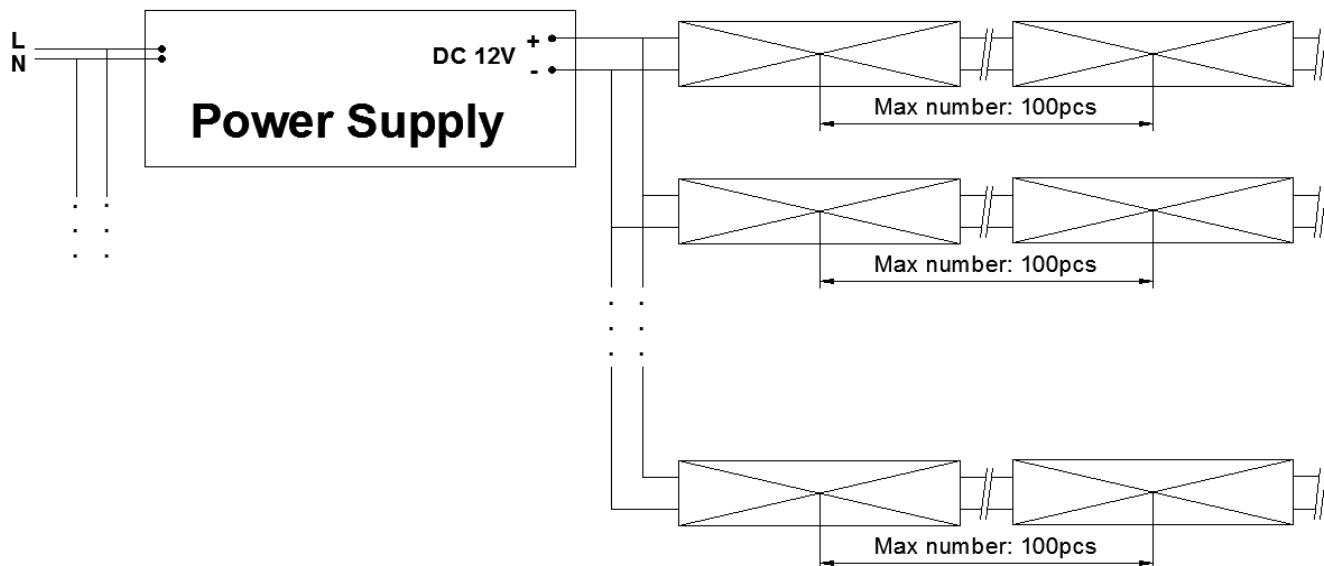
Product 2D drawing (unit: mm)



Wiring type

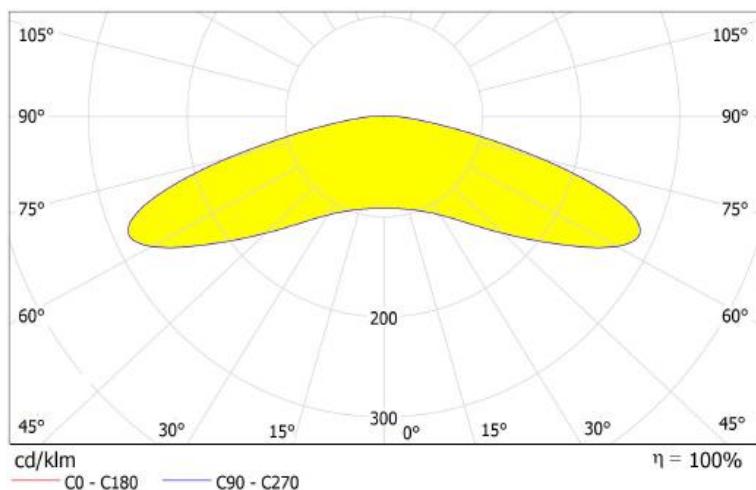
Cable	UL 1007 20AWG	
Color	red - white	white
Function	+	-

Wiring example:



Light distribution

Beam characteristics 160°

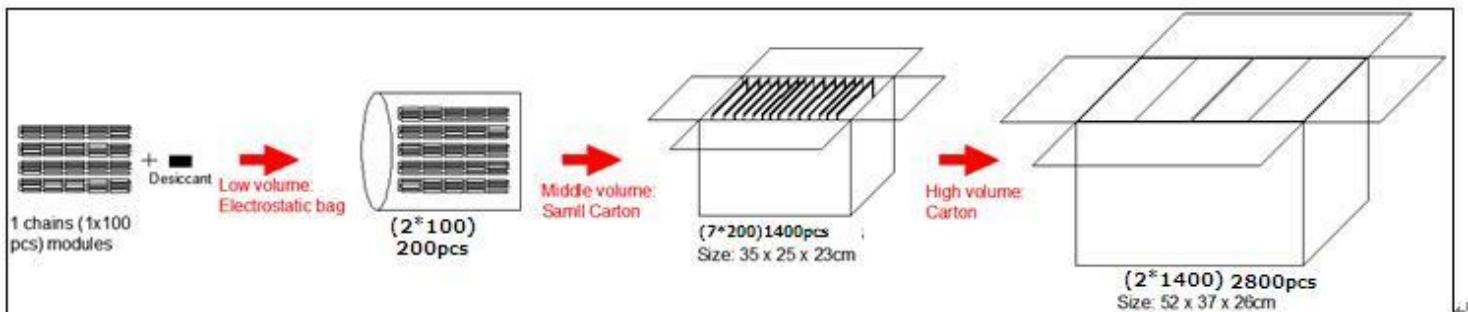


Packaging information

Product name	Weight per pc.①	Packaging, low volume		Packaging, high volume	
TL10-WXXX-0.36W	4.1 g	200 pc(s).	0.82 kg	2800 pc(s).	13.5 kg

① Tolerance range for weight: $\pm 10\%$.

Packaging example:



Noted:

- The power cable should meet the actual maximum current and power.
- All the end point of wire should be treated with waterproof;
- Pay attention to the maximum number of connections, prohibit overloading.
- All the power supply must has the corresponding certification.
- Our company reserves the right of final interpretation.
- Subject to change without notice.