

# DS7120-24V

## Specification sheet

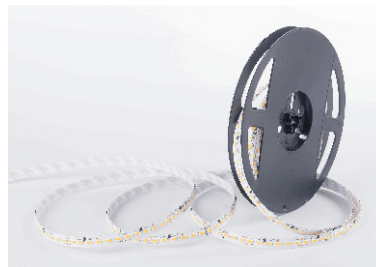
2016.08 V-2.0

### Guide

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## General

Built-in IC to stabilize the constant current and the efficacy, to bright the whole strip in same level. To compare with the constant voltage, It is good to apply the decorating used, floor light and local lighting .



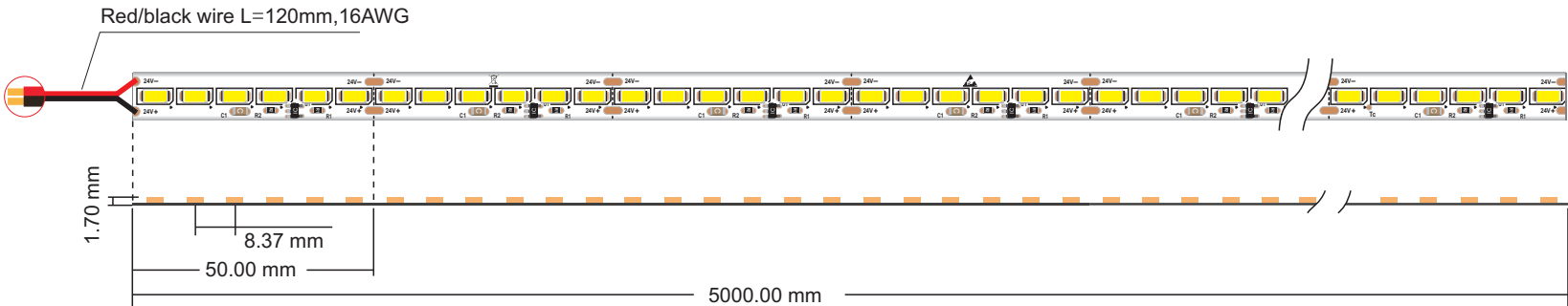
## Characteristic

- ◆ Lengthen last the life span by constant current
- ◆ Higher thickness to load the higher power
- ◆ Bright in self-consistant
- ◆ Max extend to 5 meters long per reel
- ◆ Efficacy is up to 100lm/W
- ◆ Color rending index > 80



Specification

Model: DS7120 24V



Optical

LED type	SMD5730
Color rending index	>80
CCT	2700K/3000K/4000K/6000K
Irritation angle	120°
Lumen output/meter	2300lm/2460lm/2660lm/2680lm

Electric

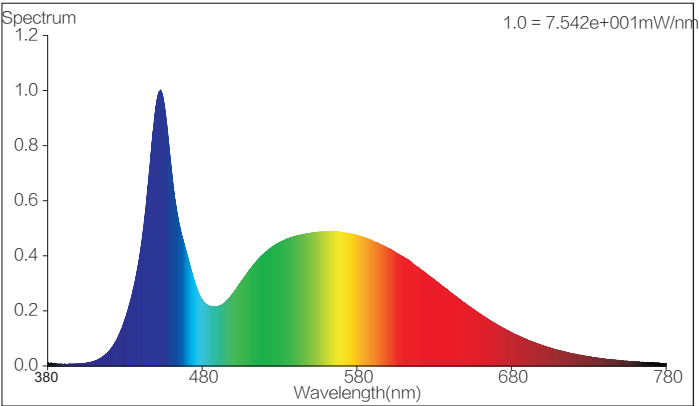
Input current/meter	1.12A/m
Input voltage	DC24V
Power/meter	26.8W/m ( ± 10% )

Others

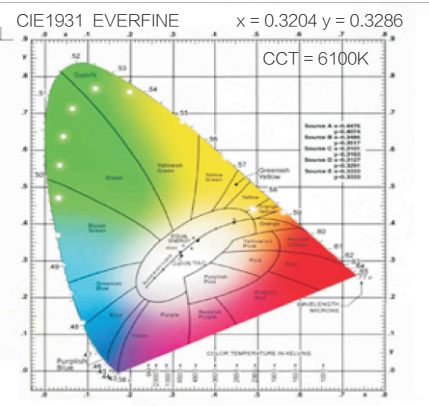
Energy grade	A+
Warranty	3years
Working hour	30000h
Working temperture	-20℃~+45℃
Working humidity	40%-70%RH
IP	IP33
Measurement	5000*10*1.7mm
LEDs/meter	120LEDs/m
Size of section	50mm(6LEDs)

Test report

Spectrum

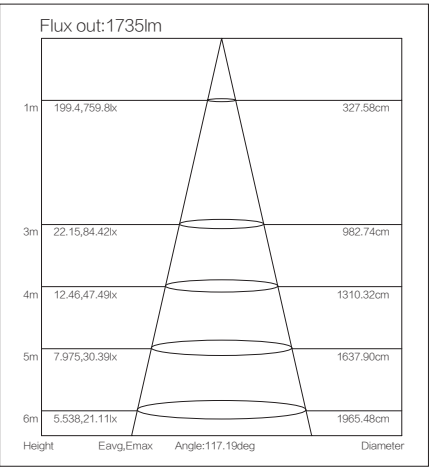
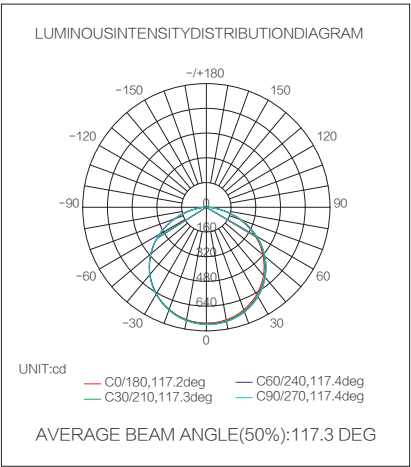


Spectral Distribution



CIE1931 Chromaticity Diagram

 Spectrum report



 Flux report

## Certification

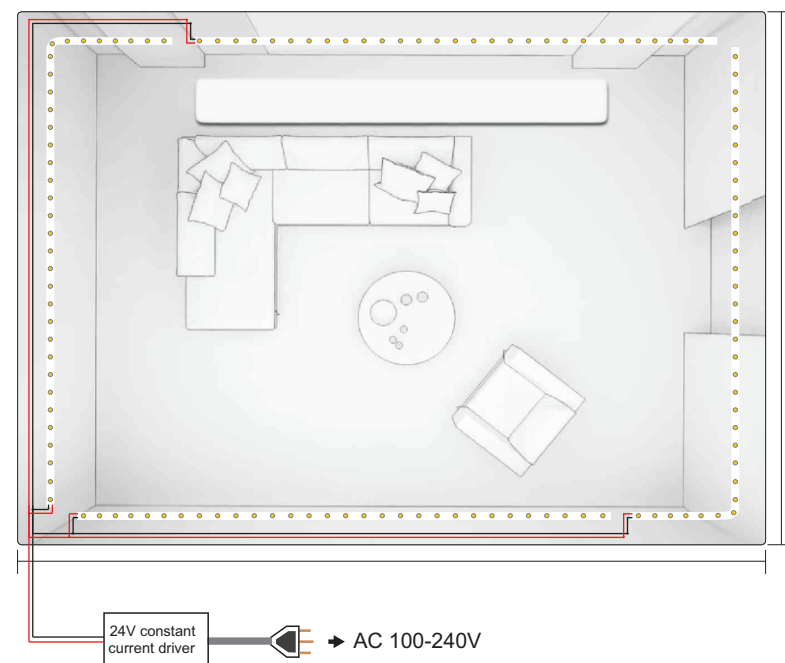
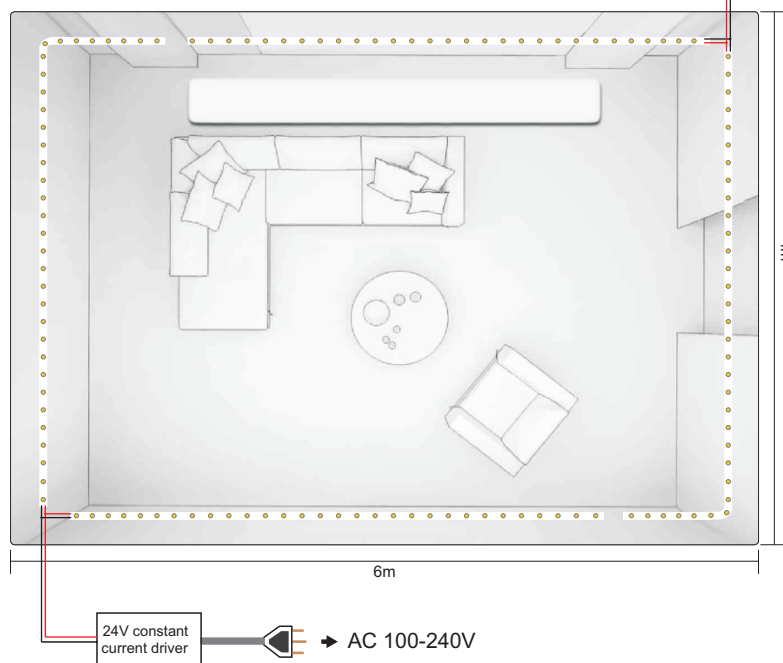
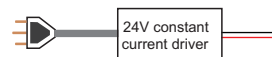


## Installation






### Application scenarios

- ◆ Single end power input for 5m

AC 100-240V



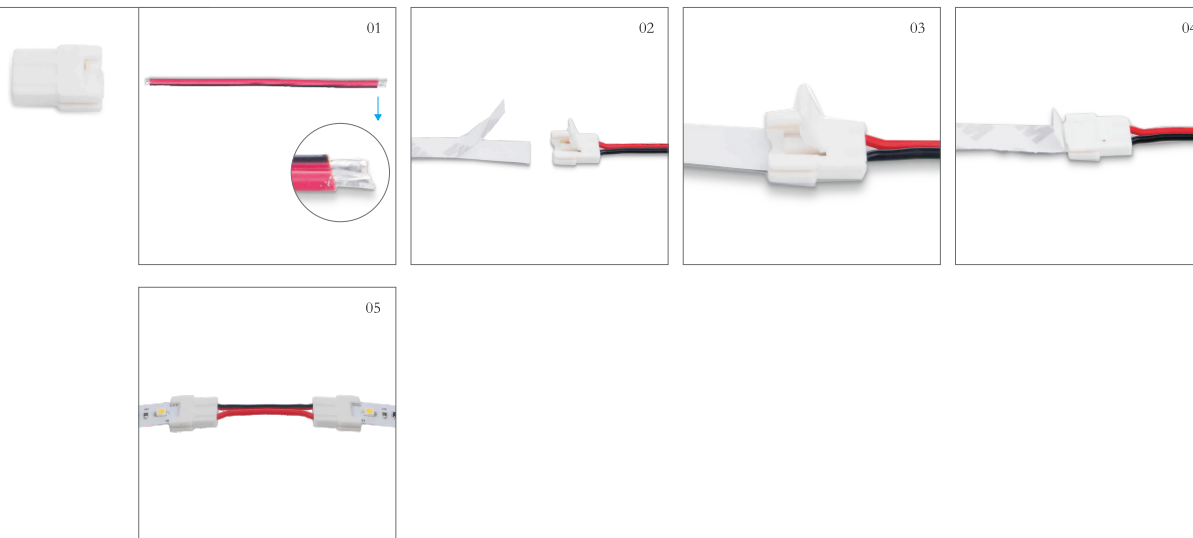
## Alternative accessories

Type	Name	Picture	Material	Quantity	Size/mm	Code	Color	IP	Remark
Connector	Connector Of Input		Anti-fire Pc	5pcs	16.2*12.7*4.5	41211015101	White	IP33	5pcs/bag
	Sigle Pin, "-" Shape Wire Connector		ANTI-FIRE PC	5pcs	Wire Diameter<2.1mm	50110000001	Red&black	IP33	5pcs/bag
	Sigle Pin, "T" Shape Wire Connector		ANTI-FIRE PC	5pcs	Wire Diameter<2.1mm	50110300001	Red&black	IP33	5pcs/bag
	Double Pin, "-" Shape Wire Connector		ANTI-FIRE PC	5pcs	Wire Diameter<2.1mm	50210000001	Red&black	IP33	5pcs/bag
	Double Pin, "T" Shape Wire Connector		ANTI-FIRE PC	5pcs	Wire Diameter<2.1mm	50210300001	Red&black	IP33	5pcs/bag



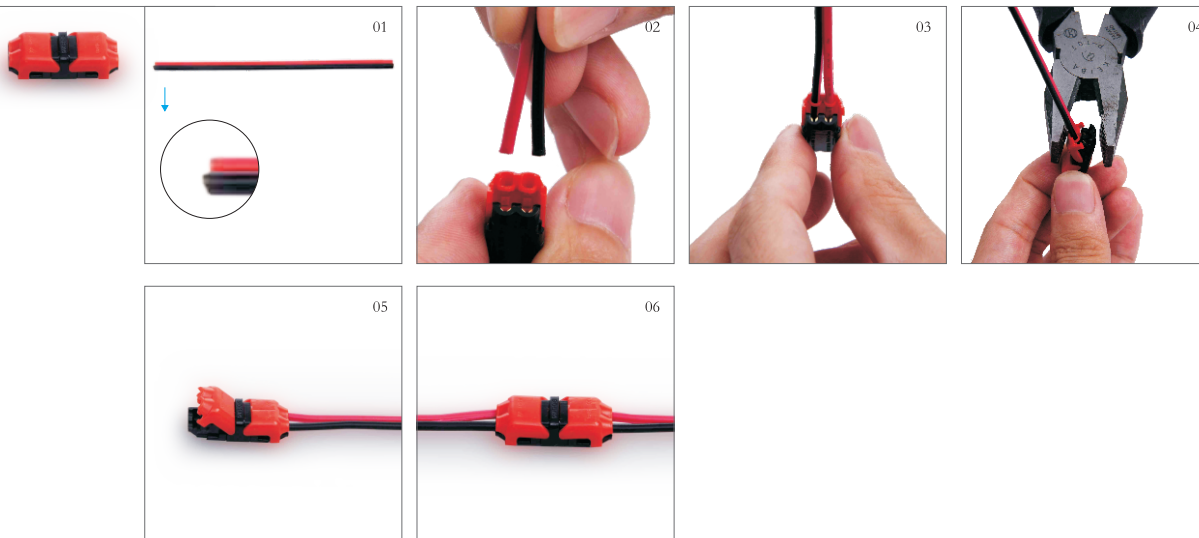
## Accessories install

### Input install

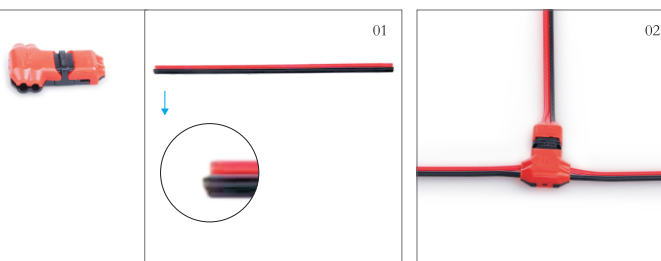


## Accessories install

### Terminals (butt)

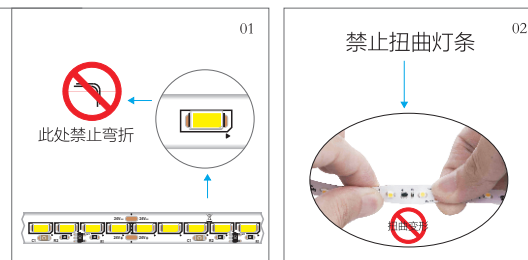


### Terminals (transfer)

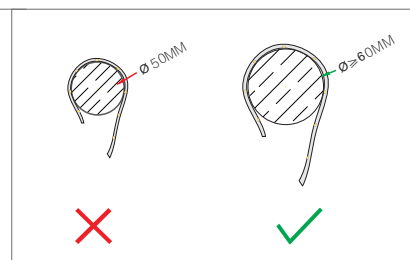


## Attentions

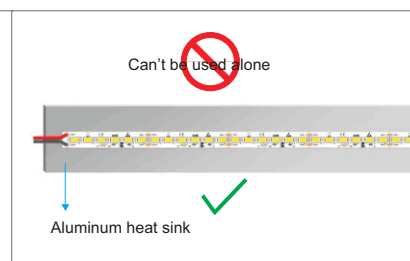
### Distortion prohibited



### ≤ 60 mm diameter of wrapped object prohibited



### This strip must be used with aluminum heat sink

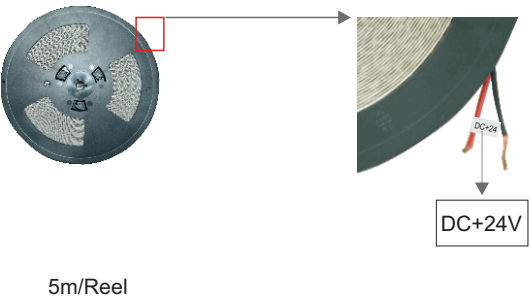


Packing

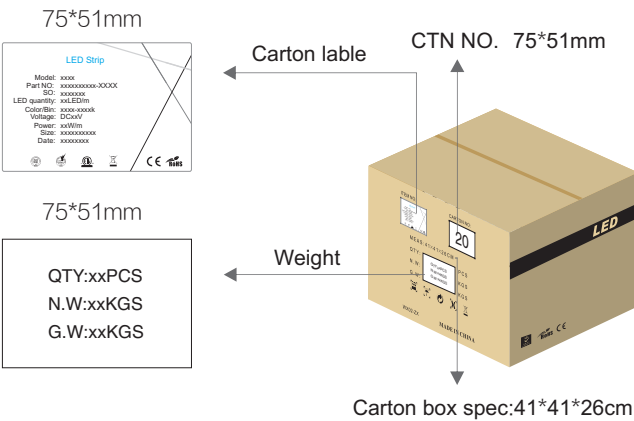
Anti-static PE bag



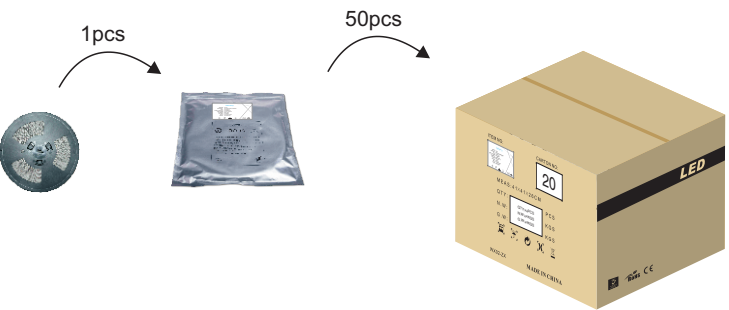
Reel



Carton box

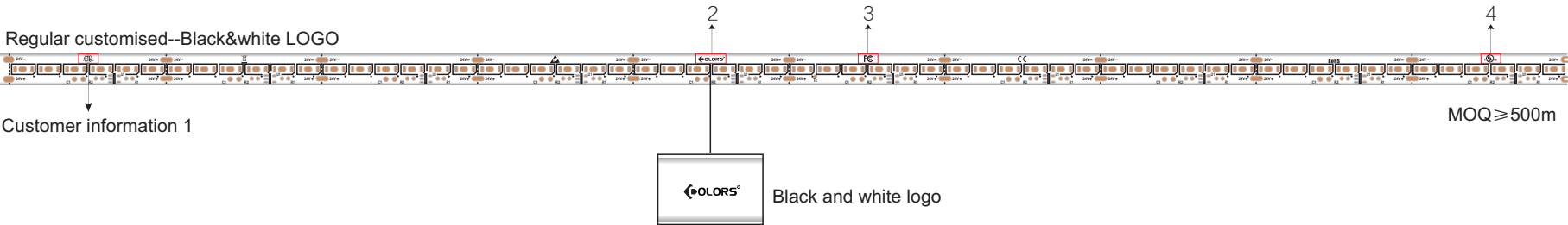


Packing Information



Way to order

Customised item: LOGO, CRI, CCT, Label, Package, size&type of wire



Order code

Products series	Order code	CCT	CRI	Lumens (lm/m)	LEDs/m	VDC	Power (W/m)	PCB width (mm)	Length/reel (mm)	IP rate
DS7120	DS7120NW824B-IP33	2700K	>80	2300	120	24	26.8	10 ± 0.1	5000 ± 15	IP33
	DS7120WW824B-IP33	3000K	>80	2460	120	24	26.8	10 ± 0.1	5000 ± 15	IP33
	DS7120DW824B-IP33	4000K	>80	2660	120	24	26.8	10 ± 0.1	5000 ± 15	IP33
	DS7120W824B-IP33	6000K	>80	2680	120	24	26.8	10 ± 0.1	5000 ± 15	IP33

Remark: ± 10% of output lumen is allowed

## Fault inspection

No.	Fault phenomenon	Possible reasons	Solutions
1	All LEDs dark or discoloration	No power supply from driver	Power delivery
		Strip with reverse polarity	Correct wiring
		External power supply bus short circuit, switching power supply automatic short circuit protection	Excluding short-circuit fault, re-transmission
		Power fuse burned	Replace fuse
2	Parts led units dark or discoloration	No power supply from parts of driver	Check the power supply system, troubleshooting
		Part of the light string supply line error	Check the power supply circuit, troubleshooting
3	Uneven lumen output or short brightness	Overload power	Add power
		Switching power line lossy	Bold power wires, or adjust the power supply position (the distance light with closer position) Make sure the line voltage into the lamp every five meters in 95% of the rated voltage of the above
		Excessive number of light strings connected	Adjusting the quantity of each supply branch of the lamp, Meet the requirements of each power supply circuit with the largest lamp
4	LED flicker	Bad wiring contacts	Find the bad element point, troubleshooting
5	Individual LED dark	Electrostatic breakdown	Discover the associated electrical and well grounded, replace the SMD.
		Induction equipment breakdown (or leakage)	Discover the associated electrical and well grounded, replace the SMD.

## Disclaimer

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Application notes for led flexiable strip

- ◆ Please use 24VDC isolated power supply to drive the led strip, and the constant voltage source ripple less than 5%. Can't step-down the power by resistance-capacitance and non-isolated power supply driver led strip, etc.
- ◆ To ensure the longevity and reliability of the strips, please do not bend the arc diameter 60mm or less, do not fold to avoid damaging the lamp beads or broken.
- ◆ To ensure the life and environment of lights, in the use of force can not pull the power cord to avoid damage to prohibit collision LED lights.
- ◆ During the installation of positive and negative attention to the power cord, do not pick the wrong voltage power supply and the product are the same, so as to avoid damage to the product.
- ◆ LED lights should be stored in dry sealed environment, the proposed storage period should not be too long before using unpacking, the working temperature:  $-20^{\circ}\text{C} \sim +45^{\circ}\text{C}$ , Storage temperature:  $-0^{\circ}\text{C} \sim +60^{\circ}\text{C}$ , not waterproof lights band indoor use, relative humidity not higher than 70%.
- ◆ In practical applications, the power supply should leave 20% margin (recommend using only 80% of the power) in order to ensure a sufficient amount of voltage drive products
- ◆ Do not use any acidic, alkaline adhesive securement products (including not limited to glass, plastic, etc.)

### Corporation Vision

Global LED indoor lighting innovation brand

### Brand Value

Concentration, Profession, Excellenec, Innovation, and Update

### Brand Style

Minimal, Fashion, Creative

### Product Idea

Simplification, Experience Vital and User First



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Wechat Code