

Product specification

Product name. COB Warm White LED Strip

Product No. LC-COBX420XM8W-24V

Version No. V1.1

Number of pages. 6pages.



Note: If the product specifications are changed or the products are discontinued without notice, please consult our sales representatives or product engineers before ordering

1. Product description

The COB flexible led strip is an LED electronic light-emitting product that uses FPCB (flexible circuit board) as the main carrier and uses SMD LED and electronic components as the load. The light-emitting surface of the product is uniform and has no dark areas. The led strip has strong deformability and can be cut and wound at will,, making it highly flexible in engineering use, and can be used to brighten various complex patterns, can also be used as a contour of the main body, and can also be used in irregular places and small spaces.

The product adopts DC24V direct current low voltage power supply mode, the product safety factor is high, the project acceptance procedure is simple, the light source adopts the industry's excellent brand chip ,they are high brightness, low light decay, energy saving and environmental protection, and have long lifespan. Based on the above advantages, this product can used in indication signs, advertising signs, home indoor/outdoor decoration, hotel and shopping mall decoration, museums, exhibition cabinets, etc.

2. Product Picture



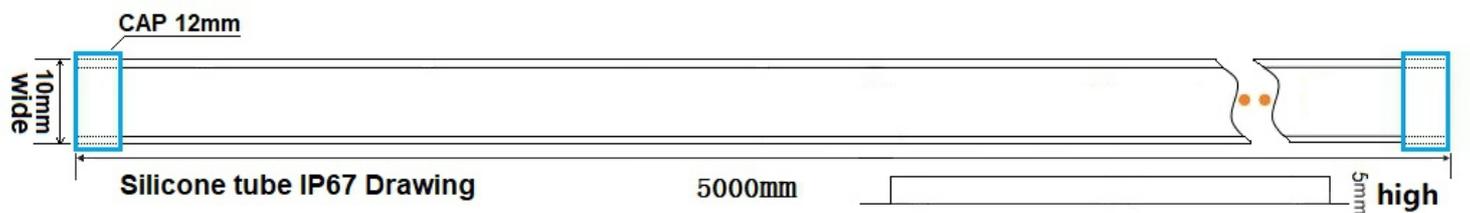
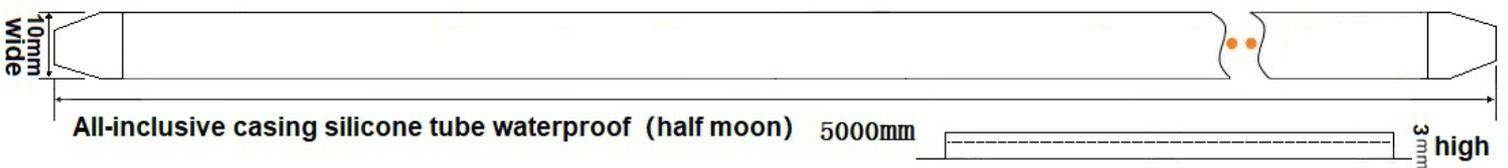
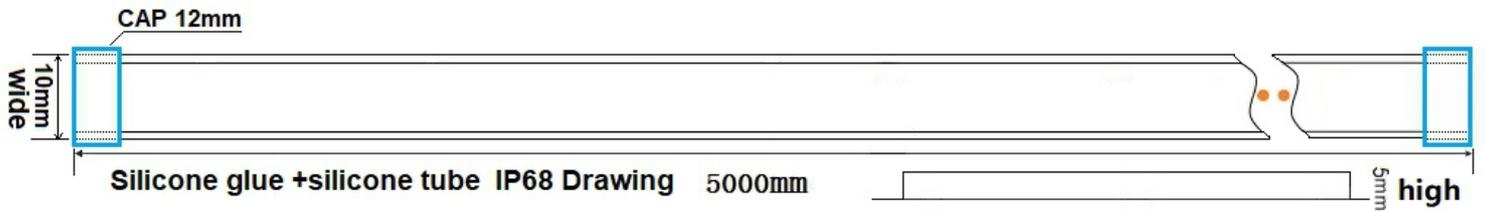
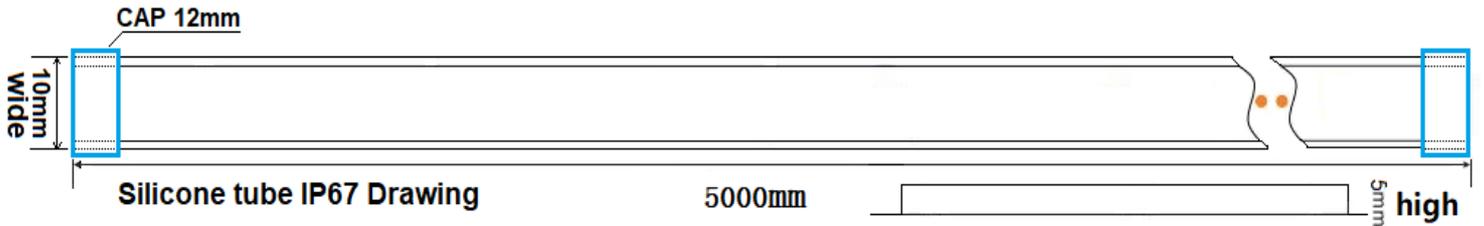
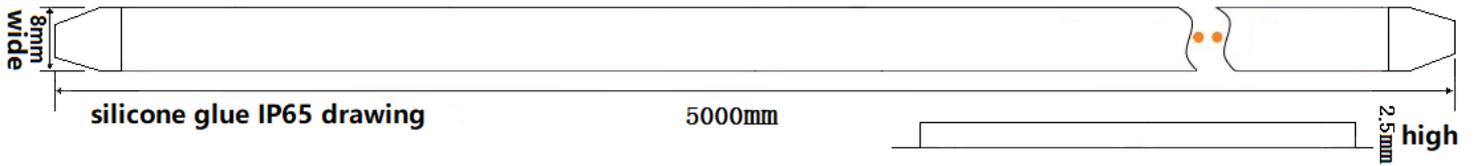
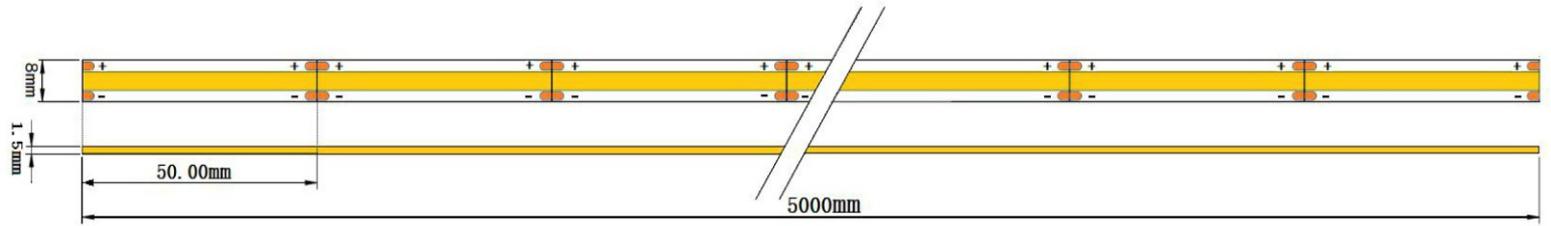
3. Product features

- ★Using international brand manufacturers' chips, the light source has high brightness, large angle, good color consistency and stable performance.
- ★Flexible tailoring, with arbitrary length, can be tailored on the complete circuit according to requirements, without destroying the principle performance.
- ★Beautiful, energy-saving, high brightness and low heat generation, it is a pollution-free product that meets the ROHS standard.
- ★IP Rating: IP20, IP65, IP67, IP68, the led strip can be used in a wider field environment.
- ★No radiation, making use safer.
- ★The beam angle can reach 180°
- ★Antistatic grade (MIL-STD-883E): HBM 2 grade (2000~4000V)

4. Product warranty

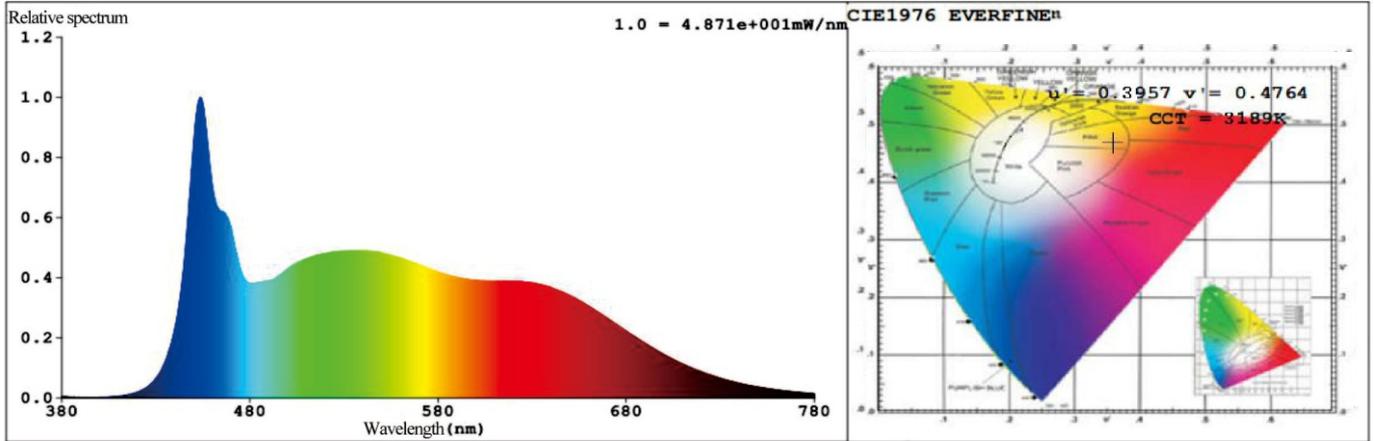
- ★The company's product warranty: two years, three years, five years, please note the warranty period for orders.

5. Dimensions



6. Photoelectric parameters (1 meter unit)

Spectral parameters



Chroma Parameters

Chro.Coor.: $x=0.3173$ $y=0.3433/u'=0.1957$ $v'=0.4764(duv=8.14e-03)$

CCT=3189K Dominant Wave: $\lambda_d=499.9nm$ Purity=4.9%

Peak Wave: $\lambda_p=454nm$ Half Width: FWHM=26.3nm Flux RGB Ratio: R=15.1% G=78.1% B=6.8%

Rendering Index: $R_a=83.6$

R1=94 R2=97 R3=98 R4=89 R5=92 R6=95 R7=93
R8=90 R9=79 R10=93 R11=91 R12=67 R13=95 R14=99 R15=91

Photo Parameters

Flue $\Phi=1039.3lm$ Effi.:41.6m/W Fe $\Phi_e=5.6303w$

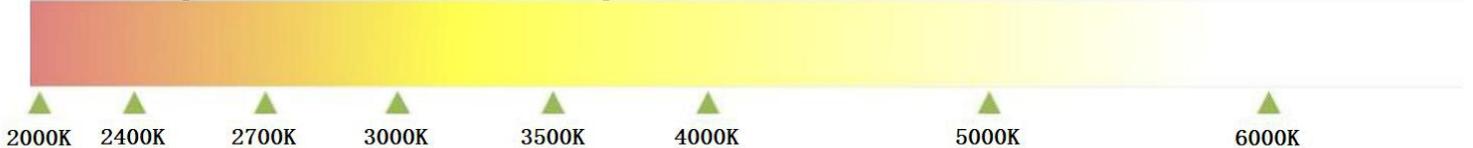
Ele. Parameters

VF V=24.00 V IF I=0.486A Power P=11.66W Power factor PF=1.000 frequency=50.00Hz

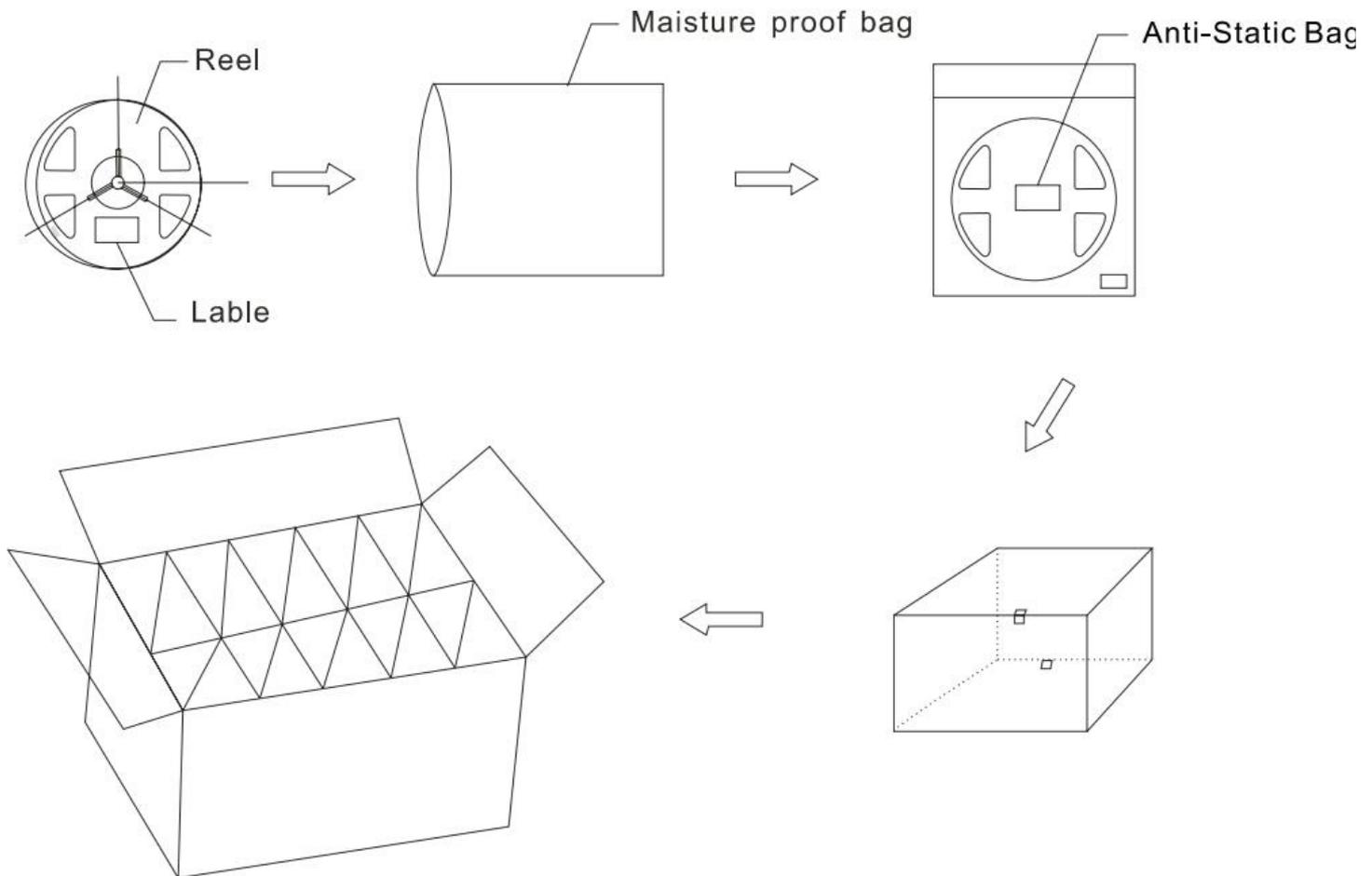
LED strip parameters:

Product No.	LED Qty	Power	Voltage	Width	Color	Ra	Brightness
LC-COBX420XM8W-24V	420LED	10.8W	DC24V	8mm	WW/ (2700- 3200K)	Ra:80-90	800LM-1400LM
						Ra:90-95	600LM-1200LM
						Ra:>95	500LM-1000LM

The color temperature is in accordance with the European standard/American standard international standard,

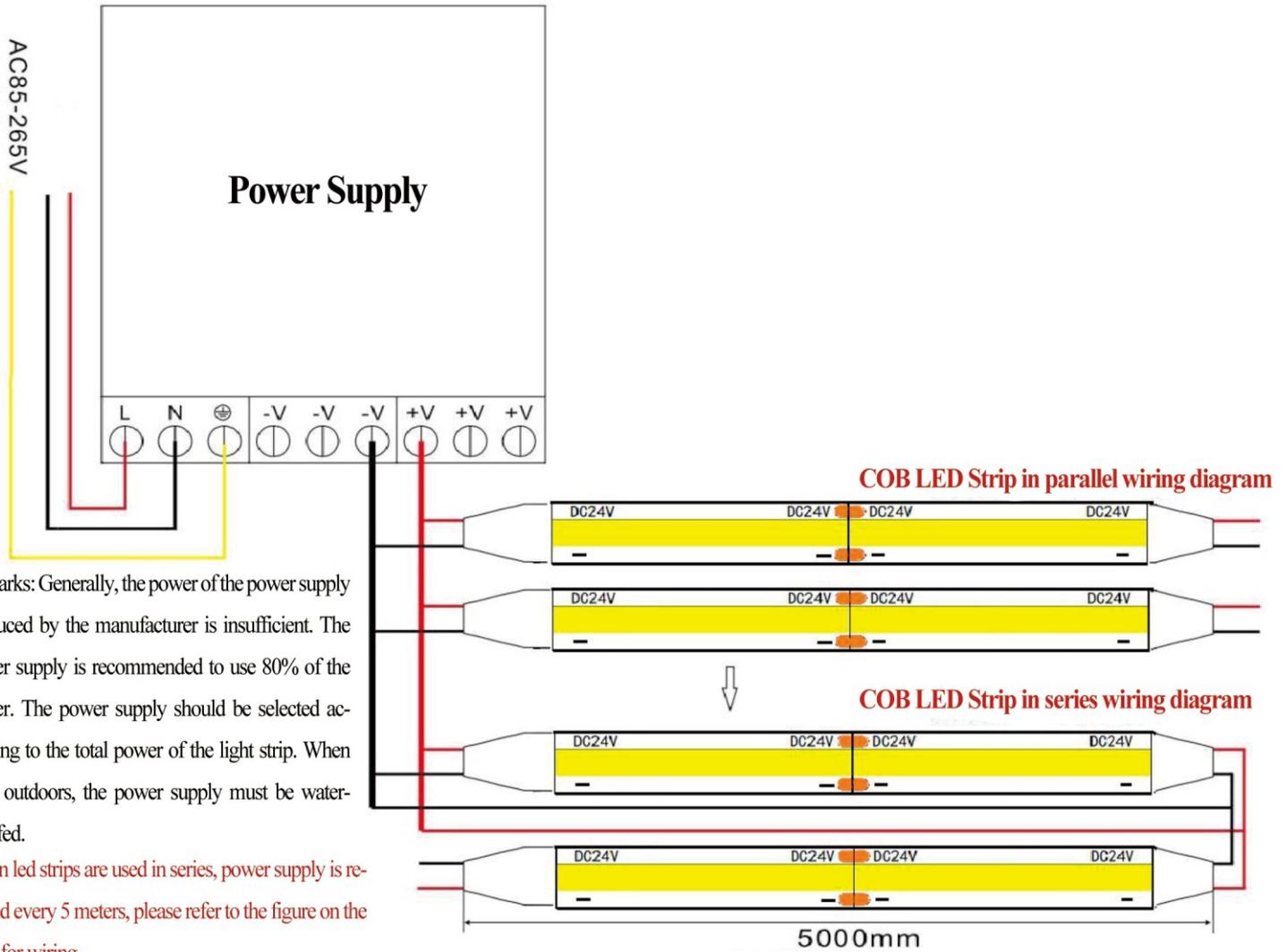


7. Packaging diagram



Note: This picture is only used for regular product packaging. The way of customized product packaging will be different depending on the actual size, and the packaging method will be formulated separately

8. Power supply wiring diagram



Remarks: Generally, the power of the power supply produced by the manufacturer is insufficient. The power supply is recommended to use 80% of the power. The power supply should be selected according to the total power of the light strip. When used outdoors, the power supply must be waterproofed.

When led strips are used in series, power supply is required every 5 meters, please refer to the figure on the right for wiring

Precautions:

1. The AC wiring must be connected to the ground wire to prevent electric shock.
2. The overload current of the main wire of the LED Strip is the sum of the current of each sub-wire, so in the actual engineering application, the type of the main wire should be appropriately increased to prevent the wire from overheating and causing an accident.
3. This specification is only for the company's conventional products, special customized products have specified parameters, which are not within the scope of this specification