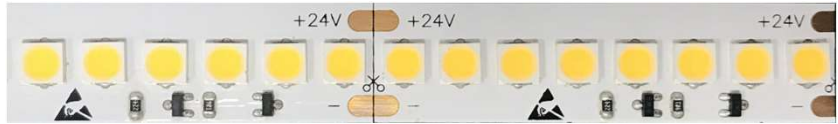


Specification Sheet for 200lm/W High Light Efficiency SMD5050 Constant Current LED Flexible Strips

Applications:

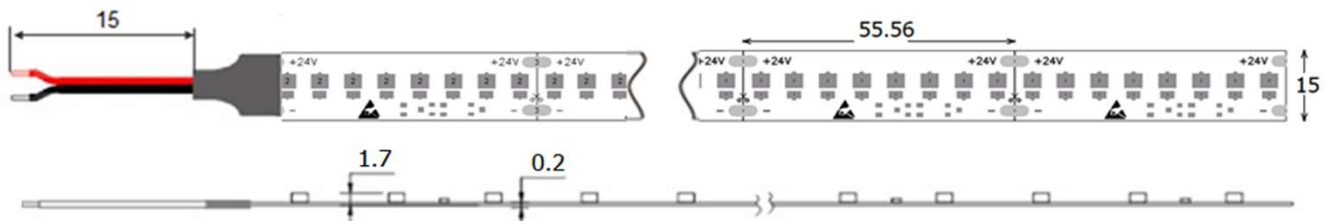
- ◆ Car decoration
- ◆ Architectural decorative lighting
- ◆ Archway, canopy and bridge edge lighting
- ◆ Auditorium walkway lighting
- ◆ Backlighting for signage letters
- ◆ Channel letter lighting



Product features:

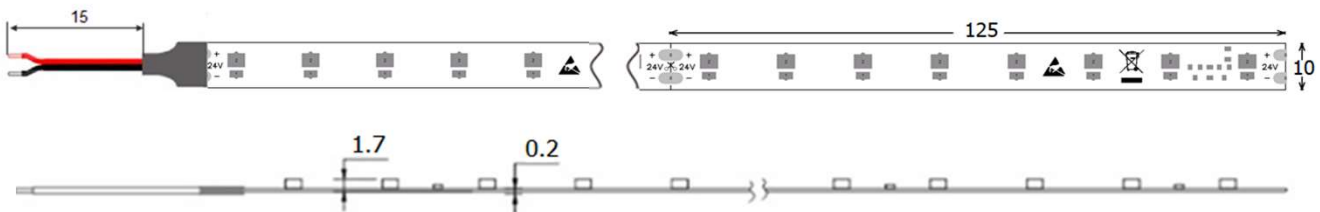
- ◆ Constant Current Version
- ◆ No need of special driver, any DC24 driver that is OK for constant voltage power supply will be OK for QL constant current strips.
- ◆ No need of special controller, normal controller will be OK.
- ◆ It can protect itself as well; when the strip temperature gets up, the current will go down to ensure the safety.
- ◆ 120 degrees
- ◆ With self-adhesive on back side
- ◆ Work Voltage: DC24V
- ◆ UL, CUL, CE, ROHS Approved

Dimensions of 144LED/m Version



Unit: mm

Dimensions of 64LED/m Version



Unit: mm

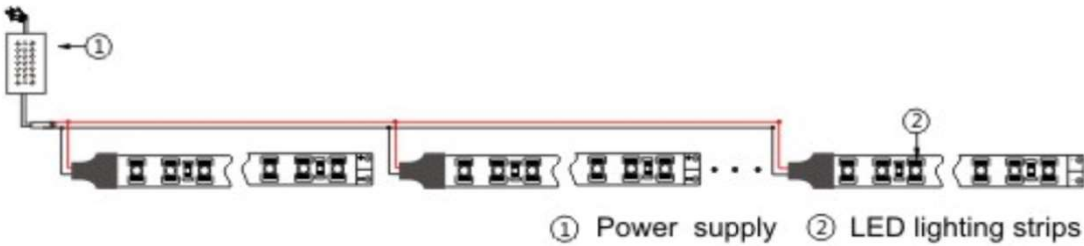
Specifications

Model No.	LED Type	LED Qty (m)	Work Voltage	Power	PCB Size	Water proof	CRI	Color	λ(Nm)/(CT:K)	Lumen (lm/m)
QL-F5050X72-WW-24C-HE	5050	144	DC24V	25W/m	15mm	IP20/ IP67	≥80	☐ Warm White	2700-2900K	4500-4600
QL-F5050X72-W-24C-HE								☐ Warm White	3000-3200K	4600-4700
QL-F5050X72-N-24C-HE								☐ Nature White	4000-4500K	5000-5100
QL-F5050X72-P-24C-HE								☐ Pure White	6000-6500K	5000-5100
QL-F5050X32-WW-24C-HE	5050	64	DC24V	11.5W/m	10mm	IP20/ IP67	≥80	☐ Warm White	2700-2900K	2100-2200
QL-F5050X32-W-24C-HE								☐ Warm White	3000-3200K	2170-2270
QL-F5050X32-N-24C-HE								☐ Nature White	4000-4500K	2300-2400
QL-F5050X32-P-24C-HE								☐ Pure White	6000-6500K	2300-2400

Remark:

X is for Waterproof type. A for Non-waterproof, C for IP67

Connection drawings



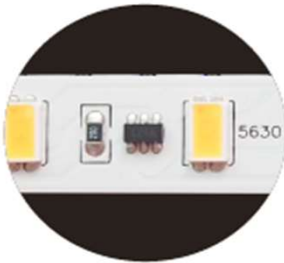
Notice:

Before Application, please ensure correct input of Positive & Negative Pole, otherwise, the strips will be damaged

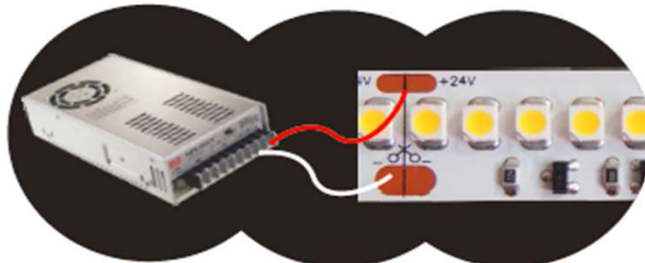
Features of Constant Current LED Strips

1

With Constant Current IC for each segment; no need of constant current driver. Normal DC24V constant voltage power supply is enough (This IC will convert DC24V to CC for the LED)



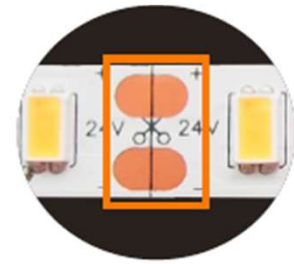
Constant Current IC



DC24V Constant Voltage Power Supply

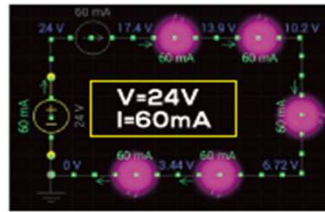
Constant Current Strips

- 2 This Constant current strips is cuttable like the Constant voltage strips.No need to change power supply after cutting



Cutting Line

- 3 It is of same current with DC21V to DC30V input, such voltage drop won't affect the brightness uniform of the strips. (21-30V Input)



- 4 It is with temperature sensor, when the temperature of the strips gets higher, the current will go down to protect itself and ensure long life span.



54mA Current before heating



34mA Current when temperature get up



54mA Current when temperature get down back

- 5 Any DC24V Output PWM Control system or dimmer is suitable, such as RF, 0-10V, Dali, DMX512, etc.



DMX



RF



Dali