

Specification Sheet for SMD 5050 Constant Current Flexible Strips



Applications:

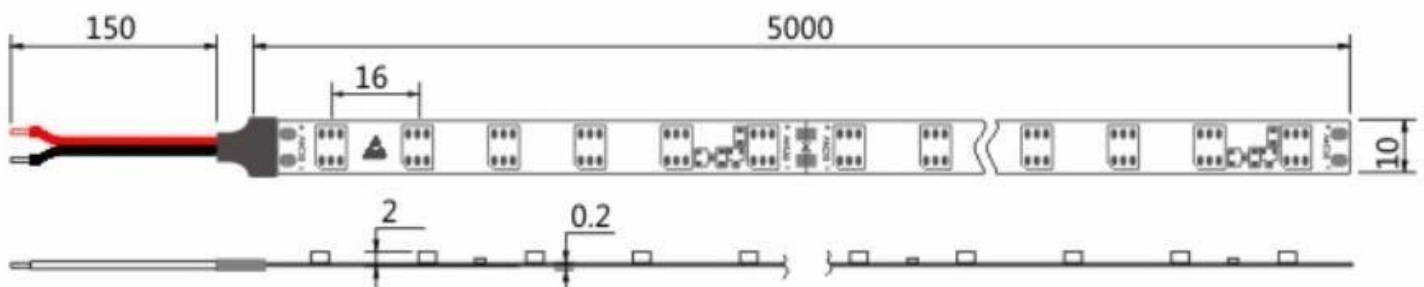
- ◆ Car decoration
- ◆ Architectural decorative lighting
- ◆ Archway, canopy and bridge edge lighting
- ◆ Auditorium walkway lighting
- ◆ Backlighting for signage letters
- ◆ Channel letter lighting

Product features:

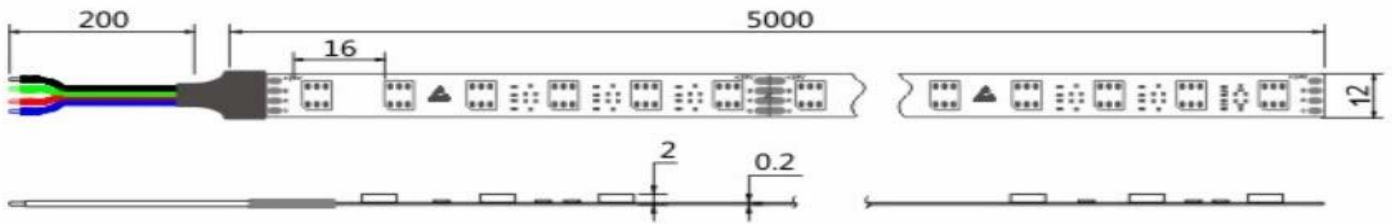
- ◆ Constant Current Version
- ◆ For 10m length, no color and brightness difference between the first part and last part.
- ◆ No need for special drivers, any DC24 driver will work with a constant voltage power supply
- ◆ No need of special controller, normal controller will be OK.
- ◆ It can protect itself as well; when the strip temperature goes up, the current will go down to ensure safety.
- ◆ 120 degrees
- ◆ With self-adhesive tape on backside, 6LEDs a group
- ◆ Work Voltage: DC24V
- ◆ UL, CUL, CE, ROHS Approved



Dimension Drawing of Single Color



Dimension Drawing of RGB Color



Unit: mm

Specifications

Model No.	LED Type	LED Qty (m)	Work Voltage	Power	PCB Size	Waterproof	Color	λ (Nm)/(CT:K)	Lumen (lm/m)
CRI ≥ 90 Version									
F5050X30SA-P-24C	SMD5050	60	DC24V	14.4W/m	10mm	IP20/IP67	<input type="checkbox"/> Pure White	6000-7000K	1100-1200lm
F5050X30SA-N-24C							<input type="checkbox"/> Nature White	4000-4500K	1000-1100lm
F5050X30SA-W-24C							<input type="checkbox"/> Warm White	2500-3500K	900-1000lm
Model No.	LED Type	LED Qty (m)	Work Voltage	Power	PCB Size	Waterproof	Color	λ (Nm)/(CT:K)	Lumen (lm/m)
Normal CRI Version									
F5050X30-C-24C	SMD5050	60	DC24V	14.4W/m	12mm	IP20/IP67	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> RGB	R:620-625nm G:520-525nm B:465-470nm	R:120lm G:270lm B:108lm
F5050X30-P-24C					10mm	IP20/IP67	<input type="checkbox"/> Pure White	6000-7000K	1100-1200lm
F5050X30-N-24C							<input type="checkbox"/> Nature White	4000-4500K	1000-1100lm
F5050X30-W-24C							<input type="checkbox"/> Warm White	2200-3500K	900-1000lm
F5050X30-B-24C							<input checked="" type="checkbox"/> Blue	B:465-470nm	750-800lm
F5050X30-G-24C							<input checked="" type="checkbox"/> Green	G:520-525nm	300-320lm

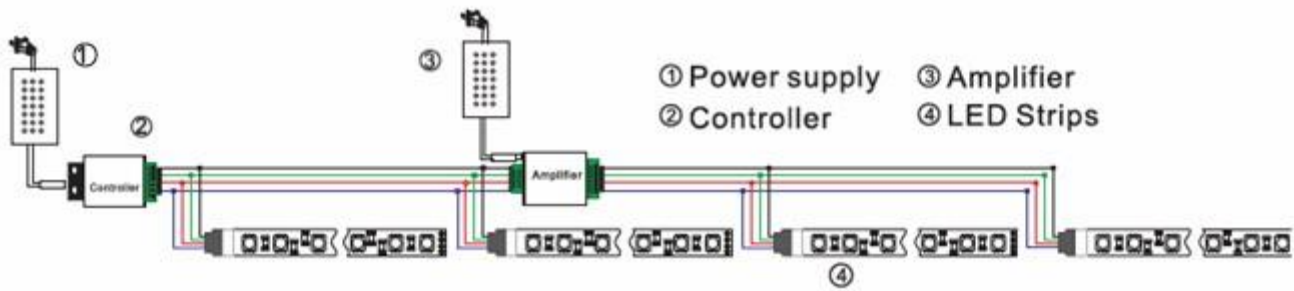
Remark: X is for Waterproof type. A for Non-waterproof, C for IP67 Version

Connection drawings of Single Color



① Power supply ② LED lighting strips

Connection drawings of RGB Color

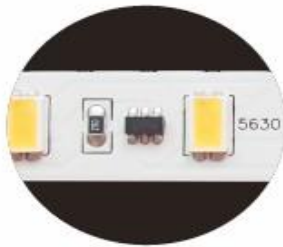


Notice:

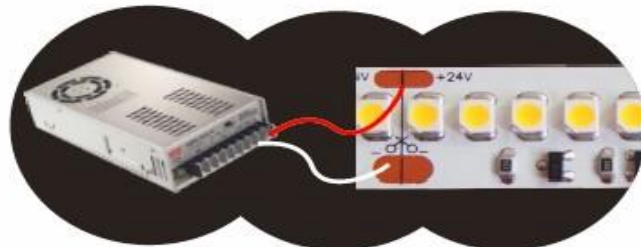
Before Application, please ensure correct input of Positive & Negative Pole, otherwise, the strips will be damaged

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)



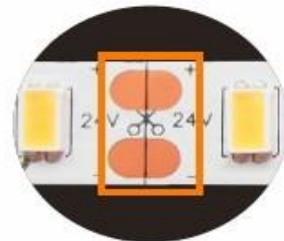
Constant Current IC



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

- 6 It can be made in 10m continuous length without brightness difference and color difference.
- 7 We have a full range of constant current strips of different brightness and power for your choice.