



Kong Lighting Technology Ltd
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PRODUCT SPECIFICATION

KL592F 5050RGB built-in IC dream color

LED Strip light Series

Feature

- ⌘ IC built in TM1934D led strip light
- ⌘ Input voltage:DC5V/12V/24V
- ⌘ Light color: full color RGB,dream color changing
- ⌘ IP Grade:IP20/IP54/IP65/IP67/IP68
- ⌘ Power:14.4W/m(60Leds/m)
- ⌘ Pixels:60Piexls/m(5V) 20Piexls/m(12V) 10Piexls/m(24V)
- ⌘ Grey scale:256
- ⌘ FPC color:White/Black
- ⌘ Cutable:1led(5V)/3leds(12V)/6leds(24V) is cutable
- ⌘ Working mode:external controller

Breakthrough!!!

1 LED fail all still work.
With the DMX decoder can support DMX512 controller.



Applications



- ⌘ Light up colorful home life ,DIY household lights for hallways, stairs, trails ,windows.
- ⌘ Light up colorful life hotels decoration use,Theaters, clubs, shopping malls, festivals and performances.
- ⌘ Architectural decorative lighting,Archway, canopy and bridge edge lighting, Security lighting and Emergency.
- ⌘ Extensively applied in Backlighting for signage letters, concealed lighting and advertisement sign lighting.



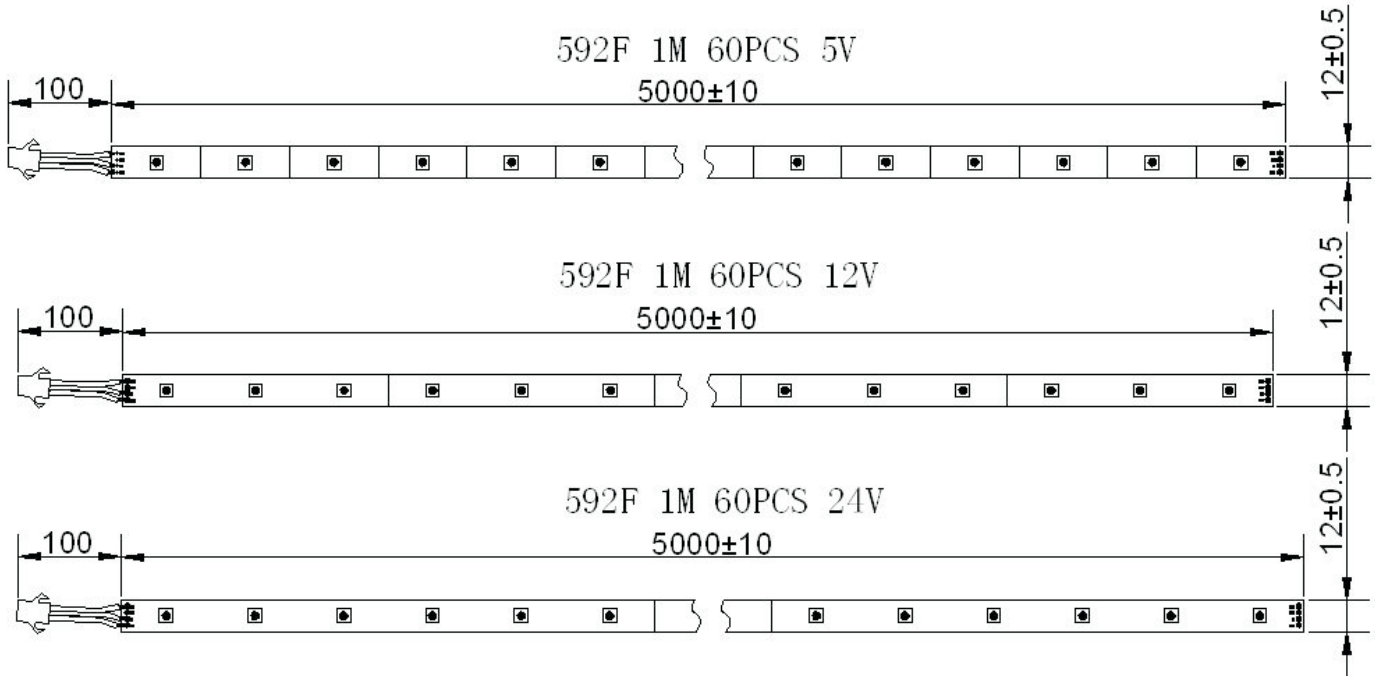
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Dimension(mm)



Parameter

Part Number	Color	Luminous flux(LM/M)	LED QTY/M	CCT/nm	Ra	input voltage/V	Rated Current/M	Rated Power / M	packaging	IP Grade
KL592F-FC/NI03 0B-5V	RGB White	168 504	30	620-630nm 515-525nm 465-475nm 6000-6500k	80	DC5V	1.6A	9W	3M/Reel	IP20/IP54/ IP65/IP67/ IP68
KL592F-FC/NI03 0B-12V	RGB White	168 504	30	620-630nm 515-525nm 465-475nm 6000-6500k	80	DC12V	0.6A	7.2W	5M/Reel	IP20/IP54/ IP65/IP67/ IP68
KL592F-FC/NI03 6B-24V	RGB White	201 605	30	620-630nm 515-525nm 465-475nm 6000-6500k	80	DC24V	0.3A	7.2W	5M/Reel	IP20/IP54/ IP65/IP67/ IP68
KL592F-FC/NI06 0B-5V	RGB White	336 1008	60	620-630nm 515-525nm 465-475nm 6000-6500k	80	DC5V	3.6A	18W	3M/Reel	IP20/IP54/ IP65/IP67/ IP68



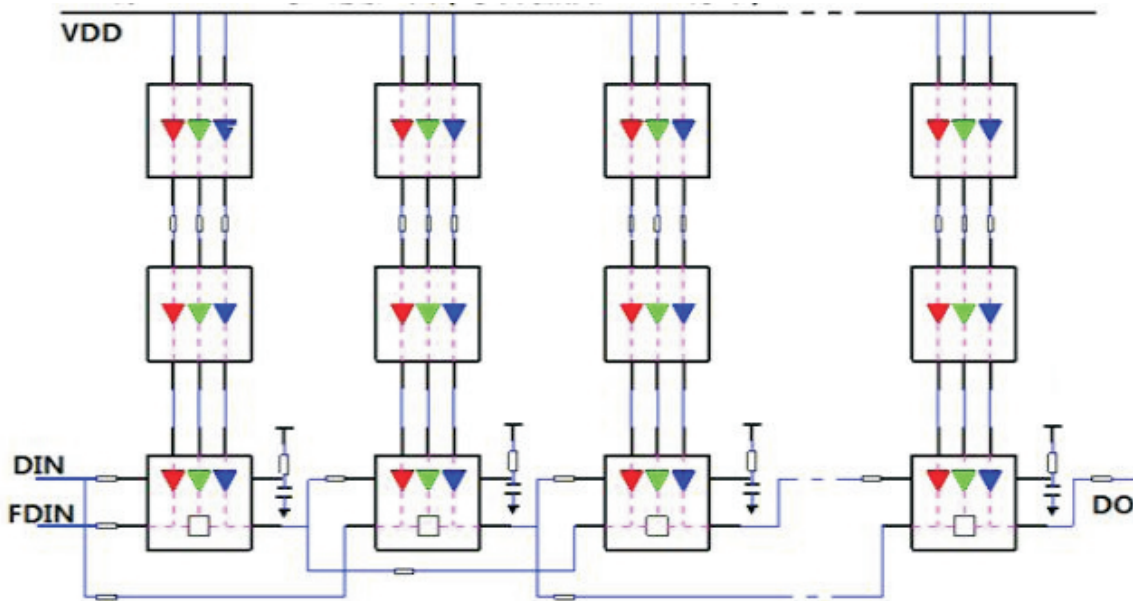
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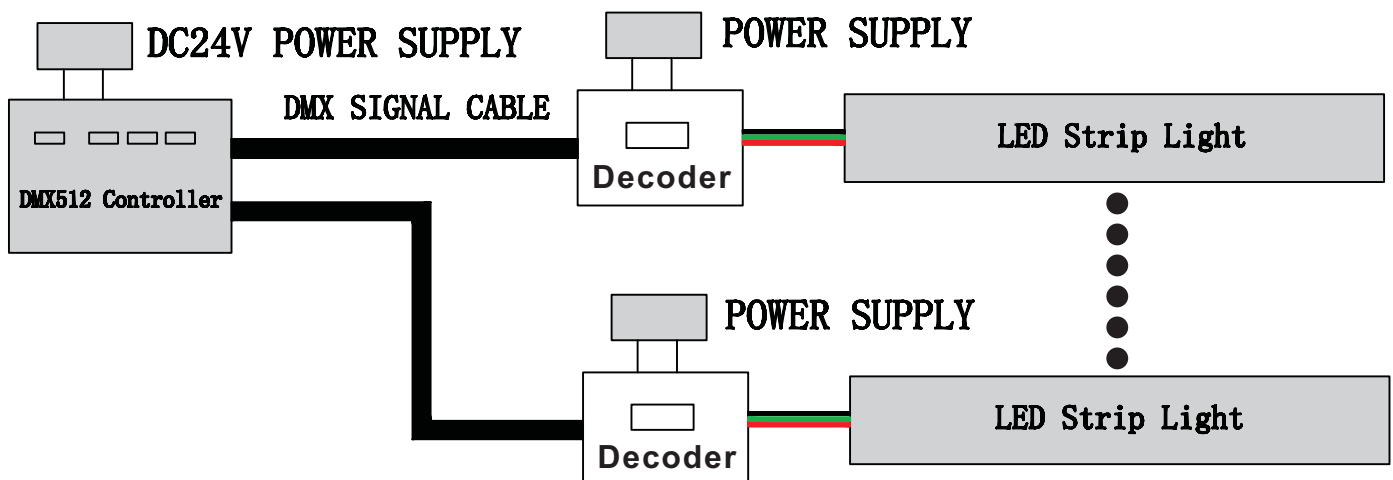
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Schematic diagram



Controller Wiring Diagram





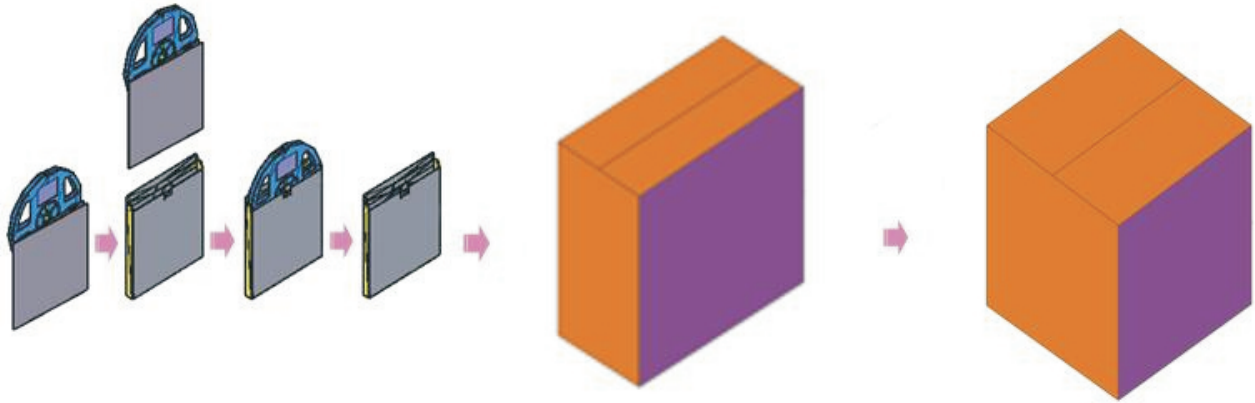
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Packaging



Common fault lookup tables

Number	Failure phenomenon	Possible causes	Solution
1	All LED does not light or no color changing	Switching power supply without power	Power-on
		Reversed polarity lamp belt	Wiring correcting
		External power supply bus short circuit, switching power supply automatic short-circuit protection	check of short circuit fault, re-transmission
		Power fuse burned	Replace the fuse
2	Part of the LED lamps does not light or no color changing	Part of switch power supply without power	Check the power supply system, troubleshooting
		Part of power supply line lamp string error	Check the power supply line, troubleshooting
3	LED doesn't give same average brightness or low luminous	Power overload	With power supply
		Too much power loss of switching circuit	Using thick wire, or adjust the power position (move closer to strip), ensure that every 5 meters of strip obtains over 95% of the rated voltage
		Over many series connection of LED strips	Adjusting the number of each power supply branch lamp, meet the requirements of each power supply circuit with the maximum lamp
4	LED flash	Bad wiring connection	Find out bad connection, troubleshooting
5	Individual LED failed	Electrostatic breakdown	Check associated electrical appliances and earthing well, and replace the broken LED
		Equipment for induction electric (or leakage) breakdown	Check associated electrical appliances and earthing well, and replace the broken LED



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Note & warning

- ⌘ Every 5M of strip should get connected with main power supply in order to reach better luminous effect
- ⌘ To guarantee its long lifespan, power supply wire should be protected from pulling or dragging by force and no impact in the process of usage
- ⌘ In order to ensure lifetime and reliability of LED strip, please do not bend or fold within 60mm diameter
- ⌘ Using at appropriate working environment
- ⌘ Please operate carefully when power-on, do not touch AC power wire to avoid shock
- ⌘ In practical applications, the power should be retained 20% margin (the proposed power usage is 80%), in order to ensure sufficient voltage drive products
- ⌘ Please note positive and negative line, correct connection, voltage uniformity between power supply and product to avoid any damage