



# 厦门市曙光电子科技有限公司

Xiamen Shulight Optoelectronic Technology Co., Ltd.

ADD: No. 180 Building Road Nanshan, Huli Industrial Zone, Xiamen 361006, China

TEL: +86-592-5659669 FAX: 86-592-5639450 E-mail: [sales@slt-led.com](mailto:sales@slt-led.com)

## Super light ® Series 3/5 lamps LED Strip for Channel Letter

### ➤ INTRODUCTION

**Super light ®** are series of LED (light emitting diode) strip with extra bright light. It produces low heat and sends no poisonous gas. It will not be easily damaged by high voltage. It has been recognized world widely as a new generation of environmental protection high-tech products.

The series contain 3/5 lamps single color LED strip, waterproof LED strip and RGB color changing LED strip.

Can be widely used for Illuminant channel letters; architecture facade lighting; highways, bridges, landmarks, signal building illuminants; advertising letters, signs, signals, instructive illuminants; commercial spaces, hospitals, hotels, supermarkets, restaurants, pubs, vehicles, steamships.



### ➤ FEATURES

#### \*100,000 HOURS LIFETIME

It has a long lifetime of 100,000 hours normal working time. Its light decay is less than 10%. This is an effective method to transform electric energy into light energy. One loop is composed of 50 modules. Maintenance will not be required. It can be used for 20 years, assuming an operation of 365 days per year and 12 hours per day.



100,000 hours Life span



Reduce cost



Maintenance free



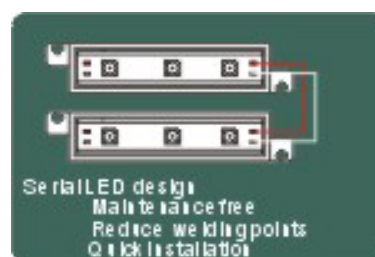
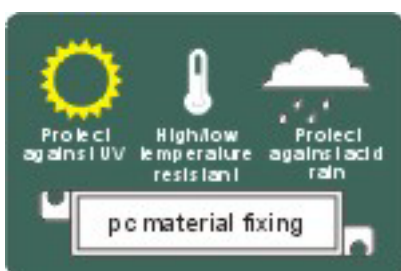
cost saving and profit increasing

#### \*ENERGY SAVING, EXTRA LOW COST

Its 12VDC low voltage and high illumination efficiency is in accordance with the international standard. Single module is less than 0.5W, saving over 90% power than traditional neon lights. It is absolutely safe and reliable. Sharply reduce electricity cost increases your market competition.

#### \*QUICK, EASY INSTALLATION; QUALIFIED MATERIAL PROTECTS FROM SHOCK, PRESSURE AND CRASH

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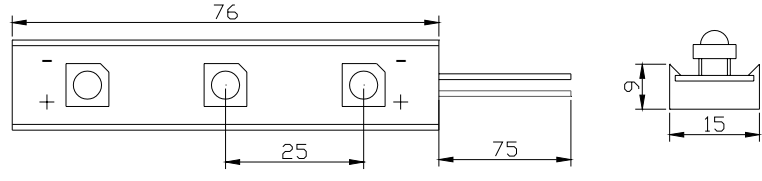





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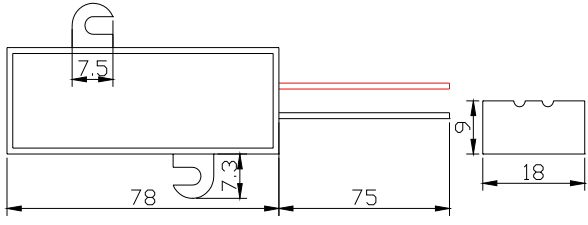





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## ➤ SPECIFICATION

### 1. Super light ® 3/5 lamps single color LED strip

Color	Part NO.	Operation Voltage	Current Per Module	Consumption Watts	Intensity Flux	Wave Length & Color Temperature	Viewing Angle	Max module c 1 Loop	Module SIZE
✧ THREE SUPER FLUX LED SINGLE COLOR STRIP (78*18*9)									
									
	SL-F-12D-3R	DC12V	40mA	0.48W	2.4lm	623 ± 3nm	120	100	L : 78mm W : 18mm H : 9mm
	SL-F-12D-3Y	DC12V	40mA	0.48W	2.4lm	589 ± 3nm	120	100	
	SL-F-12D-3B	DC12V	25mA	0.3W	2.4lm	465 ± 5nm	120	100	
	SL-F-12D-3G	DC12V	25mA	0.48W	4.5lm	520 ± 5nm	120	100	
	SL-F-12D-3W	DC12V	25mA	0.48W	6.0lm	3000~8000K	120	100	

### 2. Super light ® WATERPROOF LED STRIP SPEC (3/5 Lamps, IP67)

Color	Part NO.	Operation Voltage	Current Per Module	Consumption Watts	Intensity Flux	Wave Length & Color Temperature	Viewing Angle	Max module c 1 Loop	Module SIZE
✧ FIVE SUPER FLUX LED WATERPROOF SINGLE COLOR STRIP(78*18*9)									
									
	SL-WF-12D-5R1	DC12V	35mA	0.43W	3.6lm	623 ± 3nm	>60°	60	L : 78mm W : 18mm H : 9mm
	SL-WF-12D-5Y1	DC12V	35mA	0.43W	3.6lm	589 ± 3nm	>60°	60	
	SL-WF-12D-5G1	DC12V	35mA	0.43W	3.6lm	465 ± 5nm	>60°	60	
	SL-WF-12D-5B1	DC12V	35mA	0.43W	6.5lm	520 ± 5nm	>60°	60	
	SL-WF-12D-5W1	DC12V	35mA	0.43W	3.6lm	3000~8000K	>60°	60	




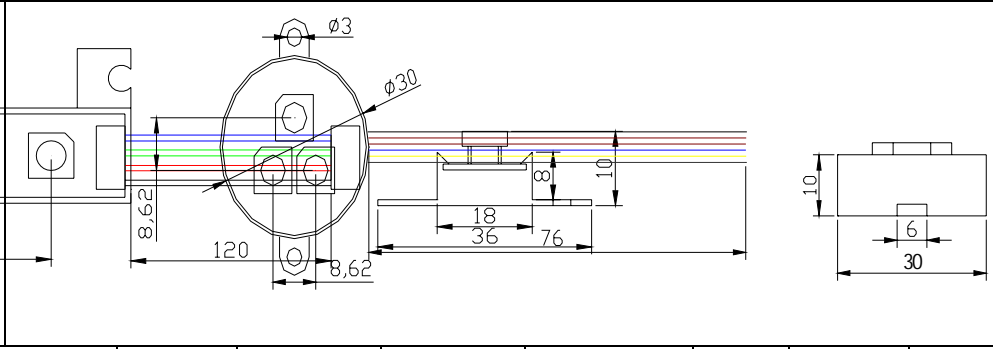

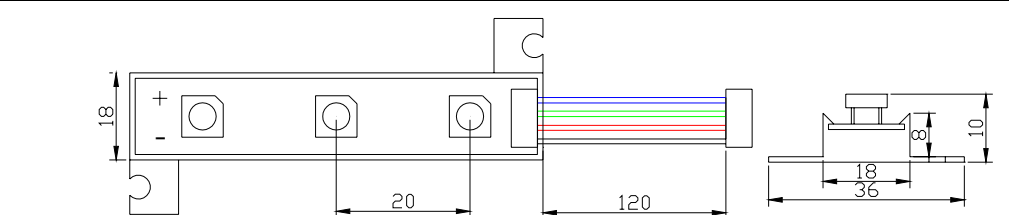

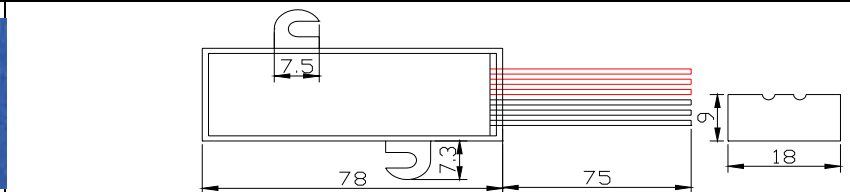

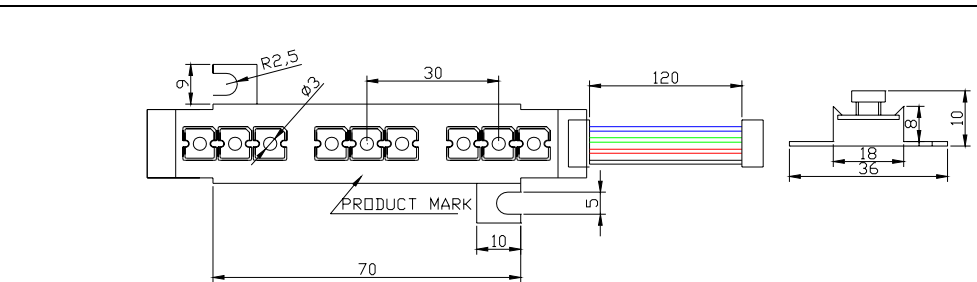
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## 3. Super light ® RGB COLOR CHANGING LED STRIP SPEC (3/9 Lamps, IP67)

Color	Part NO.	Operatio Voltage	Current Per Module	Consumptio Watts	Intensity Flux	Wave Length	Viewing Angle	Max module c 1 Loop)	Module SIZE
◇ THREE SUPER FLUX LED RGB FULL-COLOR WATERPROOF ROUND MODULE									
									
R1G1B1	SL-WR-12D-3RGB	DC12V	90mA MAX	1W MAX			>120°	80	Φ30mm
◇ THREE SUPER FLUX LED RGB FULL-COLOR PC-STYLE STRIP									
									
R1G1B1	SL-F-12D-3RGB	DC12V	60mA MAX	0.8W MAX			>120°	80	L : 69mm W : 18mm H : 9mm
◇ NINE 5 MM LED RGB FULL-COLOR WATERPROOF STRIP									
									
R3G3B3	SL-WL-12D-9RGB	DC12V	45mA	0.54W			60°~160°	50	L : 78mm W : 18mm
◇ NINE SUPER FLUX LED RGB FULL-COLOR STRIP									
									
R3G3B3	SL-F-12D-9RGB	DC12V	90mA MAX	1W MAX			>120°	50	L : 100mm W : 18mm










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## ➤ SHULIGHT POWER LED Electronic Driver

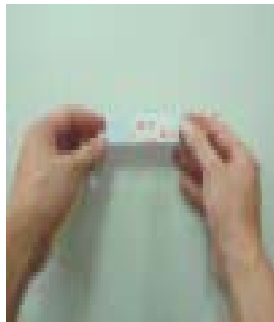
Product Picture	Description	Product Model	Product Spec		
			Parameter	Unit	Scalar
	LED transformer	SL-VA-06025K	Size	mm	130×27.5×19
			Working Voltage Rang	AC V	110~250
			Max. Output Power	W	25
			The sum Output Current	DC A	0.5
			Output Power	DC V	12±0.5
	LED transformer	SL-VA-12018C	Size	mm	203×27×24
			Weight	g	228
			Working Voltage Rang	AC V	90~250
			Max. Output Power	W	18
			The sum Output Current	DC A	1.5
	LED transformer	SL-VA-12060P	Size	mm	180×68×53
			Weight	g	850
			Working Voltage Rang	AC V	90~130V AC
			Max. Output Power	W	60
			The sum Output current	DC A	5
	LED transformer	SL-VA-1230L	Size	mm	200×100×50
			Working Voltage Rang	AC V	110-230
			Max. Output Power	W	150
			The sum Output Current	DC A	12.5
			Output Power	DC V	12±0.5
	LED transformer	SL-VA-12030J	Size	mm	240×125×65
			Working Voltage Rang	AC V	110-230
			Max. Output Power	W	350
			The sum Output Current	DC A	29
			Output Power	DC V	12±0.5
	Full Color Controller For Strip RGB Module	SL-EC-12030S	Size	mm	205×150×50
			Working Voltage Rang	AC V	110~230
			Max. Output Power	W	144
			The sum Output Current	DC A	2.5
			Output Power	DC V	12±0.5
	Shine Color Controller (For Round RGB Module)	SL-EC-1230F	Size	mm	110×65×40
			Working Voltage Rang	AC V	90~130
			Max. Output Power	W	30
			The sum Output Current	DC A	2.5
			Output Power	DC V	12±0.5
			Number of ports	4	



### ➤ INSTALL GUIDE

#### INSTALLATION GUIDE

1. Clean the installation surface
2. Get out the linked LED, then stick the double side adhesive at the back
3. Arrange and fix the LED according to the letter figure and cut off the linking wire when finished.
4. Fix screws at corners to keep it stable
5. Add silica gel or fusing gum between LED base and letter baseboard to make them fixed
6. Connect the cutted linking wire and the line of transformer
7. Power on and test, waterproof process at the connected points, then the project is finished.



Ready LEDs



Stick the double side adhesive to the LEDs



Stick the LEDs from the hole where the wire comes out



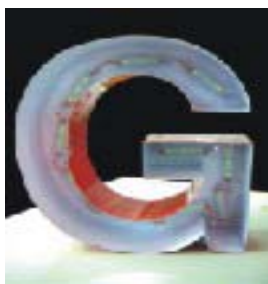
Stick the LEDs orderly and carefully



Cut off the linking wire after LEDs are stuck.



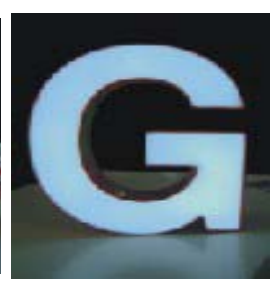
Install the cap of linking wire to the out linking wire and LEDs interface



The installed LEDs



Power on and test



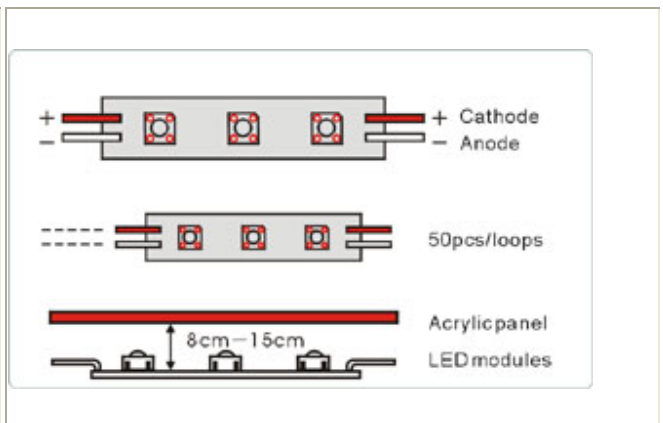
Install the Acrylic panel



The finished product

#### CAUTION: :

1. LED has two electrodes, the red wire is to connect the cathode and the white one is to connect the anode.
2. In a loop the maximum serial LED number is 50 pcs. In each loop, LED quantity should be uniform, and linking wire of each loop should have the same length.
3. The distance between the Acrylic panel and LED module should be kept within 8 to 15cm, to avoid extra bright or dark spots on the cover. (Adjust the led to get even light)
4. The protective insulation cover should be set up on the linking wire hole to avoid ripping of cable.





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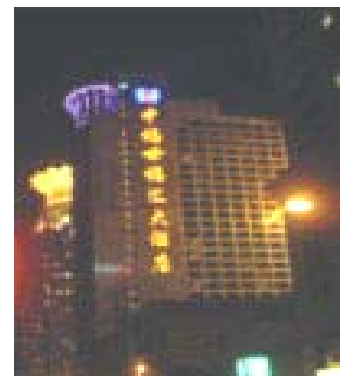
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## ➤ Tuning and simple fault solution

No.	phenomenon	The possibility of fault	The way of solving
1	All the LEDs are not lighted	Generator is off	Switch on the generator
		Blowout of generator fuse	Replacing the fuse of the generator.
2	Some of the LEDs are not lighted	Connection of switch power output is incorrect.	Adjust output port connection.
		Blowout of switch power fuse	Replacing switch power.
		Power circuit is turnoff.	Find out the spot of the circuit where it is turnoff and connect it.
3	All of the LEDs are dim	LED module numbers of the line are too much .	Rectify LED module numbers of each line according to standard.
		Polarity of LED Module line are reversed	Correct the polarity of LED Modules .
4	The line of LED module are of different brightness	LED module numbers of the line are too much .	Rectify LED module number of each line according to standard and make the last module of each line connect to the output port of power.
5	LED flickering	Badness on connected spot.	Find out the wrong on connected spot and re-connect it.
6	Blowout of fuse	Short circuit in module or in connected spot.	Check the line and eliminate short circuit.

## ➤ APPLICATION



**SHULIGHT® Expert On LED Products**