



Rose Lighting

Model: RL-STR-WS2814-5050RGBW-60-12V



<https://www.rose-lighting.com> TEL:0755-23763467 Phone:008618675649004 Email:info@rose-lighting.com

Add: No.53 Yuexing Rd, Guanlan Street ,Longhua District,Shenzhen, China 518110

Advantages:

1. **No** voltage drop. 15meters with two side connect to the power . bec we use 12mm width with 2 OZ pure copper PCB Board.
2. Super easy to install , save much wires cost, labor costs and time .
3. **Dual signal, one pixel broken ,no affect next one working!**
4. epistar 5050 RGB led ,60pcs per meter ,each led has Pure copper bracket and pure gold wire inside ,each led has High brightness>2100mcd **CCT for white :3000K 4000k 6000K optional**
5. Double membrane covering the FPCB board, good protection
6. SPI control : ws2814 IC chipset (same work as ws2811, ect)
7. 3 led (5cm) as one cutting part, ect....
8. **Strong signal Signal transmission, can make 10meter long distance.**



1. PWM refresh rate: 1.2kHz, transfer speed 800k bps
2. It comes in 1 meters per reel with 4Pin female/male JST SM connector on both end and separated Power / Ground Wires . Customized length is workable .
3. 12V (3leds one IC with 12V)
4. 2unce PCB boardwith double cooper layer(hongqi brand 3535 copper)
5. double sides membrane cover the pcb board. make sure the copper no drop from the pcb board
6. Flexible PCB material . ever 3 LEDcan be cut with 12V,
7. 60 leds per meter . 12V low voltage inputted , don't over 13V , otherwise you will destroy the entire strip .
8. Controller System :SD controller , DMX controller , Artnet and so on .(SPI protocol)
9. Installing : screw+silicon clip and 3M adhesive on back side for sticky

Model: RL-STR-WS2814-5050RGBW-60-12V

Part NO	RL-STR-ws2814-5050RGBW-60-12V
Lighting Source	Sanan 5050RGB +W LED
Beam Angel	120 degree
Operate Voltage	DC12V
Consumption Watt/M	19.2 Watt per meter
PCB quality	Double layer 35um Copper
LED quantity /M	60 leds per meter
Luminance (mcd)	2100MCD for one RGB 5050 led +white >7lm
IC chip	Ws2814
Cable	AWG20
Plug	4pin female and male connector
Waterproof Grade	IP20/65/67/68
Control	SPI /TTL control
warranty	2years

There is 4 Pin JST SM female/male connector on both end for signal input/output

Input: Female Connector output : male Connector



+Dc12V: Red
Data1: Green
Data2: Blue
GND: White

GND DI BI VCC

IP rating



IP20

Non-Waterproof



IP54

Sparly/Nano Coated



IP65

Sillcone glue Coated



IP67

Sillcone tube



IP67

Sillcone integrated molding/Extrusion



IP68

Sillcone tube injected **silicone gel**

Electrical / Optical Characteristics at Ts=25°C 电性与光学特性

Item 项目	Symbol 符号		Test Condition 测试条件	Value			Unit 单位	
				Min.	Max.	Typ.		
Forward Voltage	VF	R	IF=20mA	2.00	2.20	—	V	
				2.20	2.40	—	V	
				2.95	3.20	—	V	
		G		3.20	3.45	—	V	
				B	3.00	3.20	—	V
					3.20	3.40	—	V
		W1(2400K)	IF=20mA	2.70	2.95	—	V	
W2(6500K)	2.70	2.95		—	V			
Luminous Intensity/flux	IV	R	IF=20mA	800	1200	—	md	
		G		1400	2200	—	mcd	
		B		350	560	—	mcd	
		W1(2400K)		5.5	8.0	—	lm	
		W2(6500K)		7.0	9.5	—	lm	
Dominant Wavelength	WLD	R	IF=20mA	618.0	623.0	—	nm	
		G		518.0	523.0	—	nm	
		B		465.0	470.0	—	nm	
Reverse Current	R	IR	VR=5V	—	10.0	—	uA	
	G	IR	VR=5V	—	10.0	—	uA	
	B	IR	VR=5V	—	10.0	—	uA	
	W1(2400K)	IR	VR=5V	—	10.0	—	uA	
	W2(6500K)	IR	VR=5V	—	10.0	—	uA	
Viewing Angle	R	2Θ1/2	IF=10mA	—	—	121	Deg	
	G			—	—	123	Deg	
	B			—	—	120	Deg	
	W1(2400K)			—	—	114	Deg	
	W2(6500K)			—	—	117	Deg	
Color Rendering Index	W1(2400K)	Ra	IF=20mA	80.0	—	—	—	
	W2(6500K)	Ra	IF=20mA	80.0	—	—	—	

Certifications

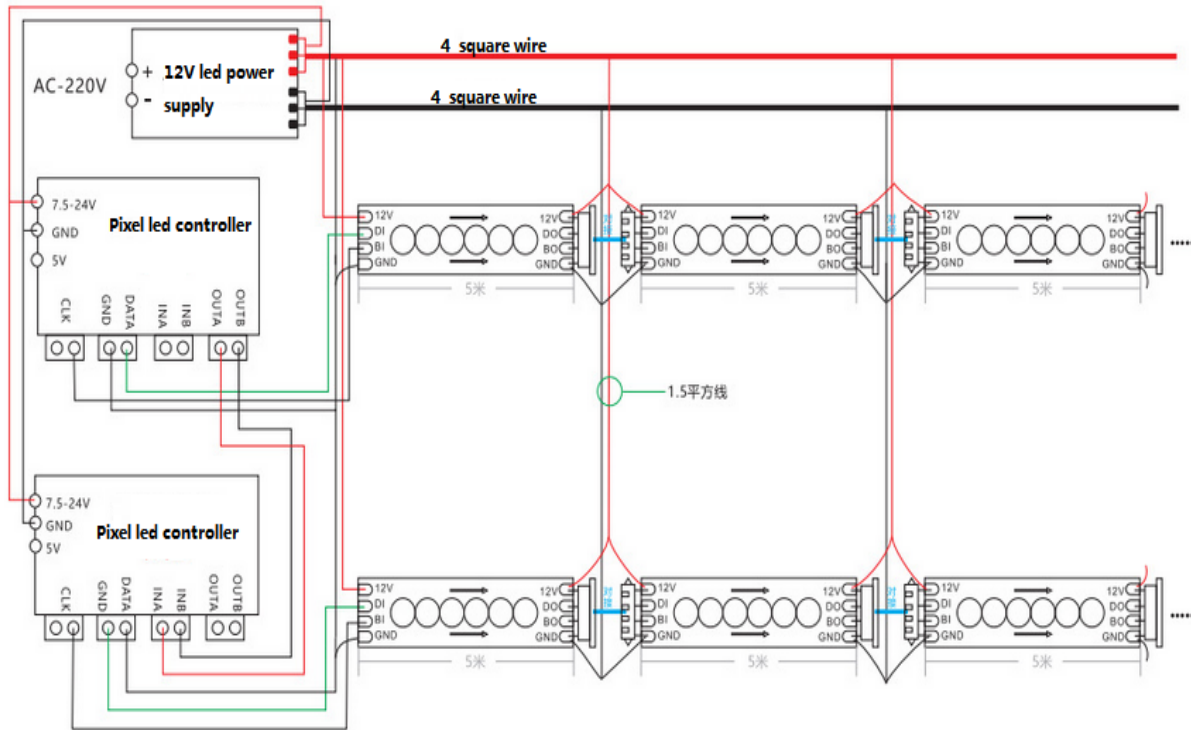
 AUTHORIZATION TO MARK	
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Applicant: Address: Country: City: Phone: FAX: Email:	Manufacturer: Address: Country: City: Phone: FAX: Email:
Shenzhen Shennuo Optoelectronics Co., 2F-11 Building, Hongshe East Park, Shennuo, Shiqin Town, Shiqin District, Tangshan, Guangdong China Ba Wu +86 755 29116255 mail@sznnet.com	Shenzhen Shennuo Optoelectronics Co., LTD 2F-11 Building, Hongshe East Park, Tangshan, Shiqin Town, Shiqin District, Tangshan, Guangdong China Ba Wu +86 755 29116255 mail@sznnet.com
Party Authorized To Apply Mark: Name of Manufacturer: Shenzhen Testing Services Shanghai Report Issuing Office:	
Control Number: <u>0000096</u>	Authorized by:  Thomas Thomas, General Manager
	
This document supersedes all previous Authorizations to Mark for the noted Report Number. The information provided on this document was prepared and issued by Intertek Testing Services, Inc. ("Intertek") based on the information provided by the applicant and the manufacturer. Intertek is not responsible for the accuracy or completeness of the information provided by the applicant and the manufacturer. Intertek is not responsible for the accuracy or completeness of the information provided by the applicant and the manufacturer. Intertek is not responsible for the accuracy or completeness of the information provided by the applicant and the manufacturer. Intertek is not responsible for the accuracy or completeness of the information provided by the applicant and the manufacturer.	
Intertek Testing Services Inc. 3030 3651 East 9th Street, Anaheim, Orange, CA 92805 Telephone 951-343-5811 Fax 951-343-5817	
Standard:	Low Voltage Lighting Systems UL 2188 Issue 2004/0207 E 1 Rev. 2014/01/02 Green Requirements for Luminaires - CSA C22.2 No.9.3 (93) 1996/06/01 E 1 (2011), with 1st. 1997 Gen Ed. 1995
Product:	Low Voltage Lighting L10 40W
Model:	SK-51742/C2 (where "V" is any number, "C" is a letter or the combination of a letter and number)

C E R T I F I C A T E of Conformity EC Council Directive 2004/108/EC Electromagnetic Compatibility		 TUV Rheinland
Registration No.: AE 80329836 0001 Report No.: 17055806 001		
Holder:	Shenzhen Shinshey Optoelectronics Co., Ltd No. 117 Building, Hongfa High Park Tangshan, Shiyao Town, Baimiao District, Shenzhen City 518108 P.R. China	
Product:	LED Lamp (LED Strip)	
Identification:	Type Designation: SX-STD09/2 1. All "x" are variables, refer to report for details) Serial number: Remarks: Refer to test report 17059040 001 for details.	
Tested case to:	EN 60529:2013 EN 61347-2:2009	
This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are available upon request. It is to be verified that the tested sample is in conformity with all provisions of Annex I of Council Directive 2004/108/EC. This certificate does not replace any of the product-specific or product-line test plans or the use of a TUV Rheinland mark of conformity. The holder of the certificate is authorized to affix this certificate in connection with the CE Declaration of conformity according to the state of the art.		
Date: 15.01.2018		Certification body: Dipl.-Ing. Univ.-S. C. Stabla
TÜV Rheinland LGA Products GmbH • Tillystraße 2 • 90431 Nürnberg		

		Date: Feb. 18, 2016 Page 1 of 4	
Test Report No. TQ/160107/170401			
SHENZHEN BISHENGLI OPTOELECTRONICS CO., LTD. 30 JIN GUO ROAD, HONGKONG INDUSTRIAL PARK, TANGKOU, SHENZHEN, CHINA (EBC) (Shenzhen, CN)			
The following samples were submitted and identified by their serial of the client as: LED STRIP			
This report corresponds to the previous documents bearing the test report number TQ/160107/170401			
The following samples were submitted and identified by their serial of the client as: LED STRIP			
Sample Reference Information : SEE ATTACHMENT			
Report's Issuance Date : JAN 07, 2016			
Future Expiration Date : FEB 18, 2016			
Test Period : JAN 07, 2016 TO JAN 18, 2016			
Test Requested		Customer	
1. Compliance Directive 2011/65/EU (RoHS) & recasting 2002/95/EC (chlorinated compounds) halogen tested as specified by the customer's chosen test per test package for RoHS		PART	
----- FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGES -----			
Signed for and on behalf of Shenzhen Bishengli Optoelectronics Co., Ltd. Shenzhen Branch Test Laboratory			
			
Fanyu Shengrong, assistant Manager Technical Manager			
			
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Wiring Chart

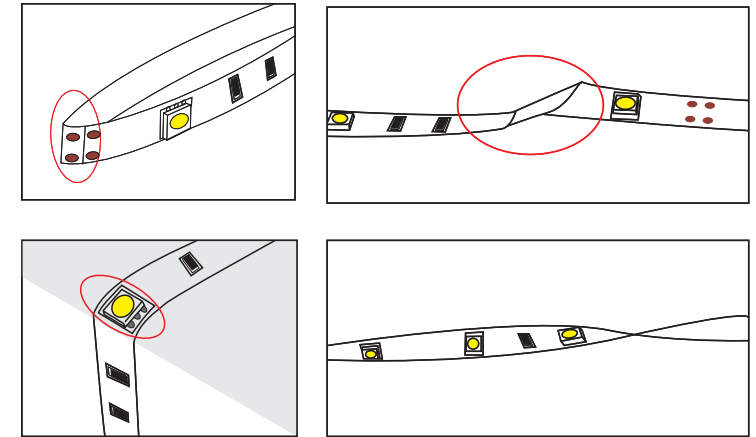


Note:

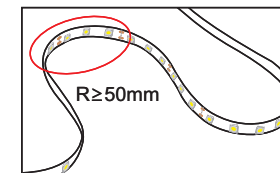
1. One Aluminum Foil Bag for one roll of LED strip, 5M/roll.
2. All the packaging materials are RoHS standard.
3. Heavy stuff are not allow to be loaded above the packaging box.

⚠ Cautions:

- When install the led strip , please note the installation technique. The led strip can be bent, but not distorted, as shown below:



Distortion(Wrong)



Bend(Right)

- LED strips are low voltage products, you must use the power supply(transformer). Please don't connect the led strip directly to the AC110 or AC220V, otherwise it will burn out the LED strips.
- Clean up the installation surface, it will ensure the reliability of the adhesive.
- The electrical connection process must be operated by a professional person.

Package

