

Technical data

CODE:

52619S

PRODUCT:

LED STRIP - ZIGZAG 12V

NOTE:

TECHNICAL DATA

IMAGE:**LAST UPDATE:**

3/2026

LED STRIP LIGHT RGB



Features:

- economical product with excellent cost performance
- external controller supports various color effects
- multiple waterproofing process available
- flexible and cuttable
- multiple specifications, support customization



Dimension

Input voltage	DC 12V
Rated power	14.4W (RGB)
Power error range	±10%
Available Tape IP	IP20
Warranty	2 years
Working temperature	-20~+60°C
Storage temperature	-20~+70°C

Available Process

Ip20(N) Non-Waterproof	Ip64 (WP) Spray Glue Coated	Ip65 (WS) Thick Glue Coated

Optical & electrical parameters

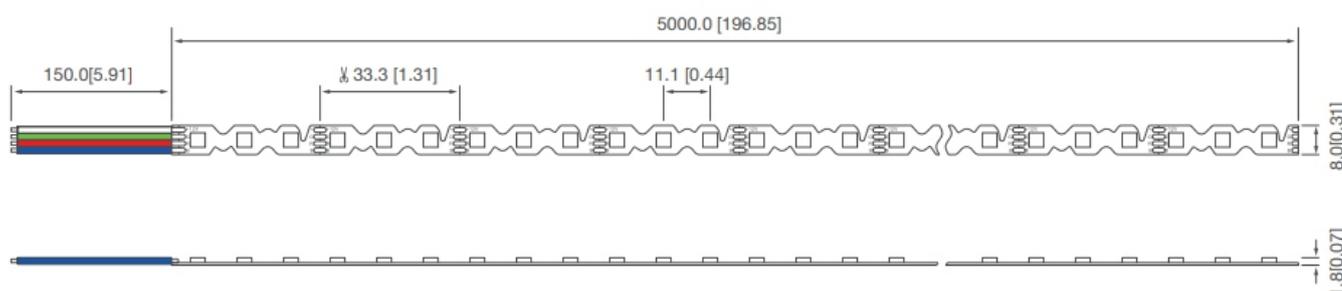
Color temperature	CCT/Color Available	Ln/m	Lm/W	W/m	Voltage
Red	620-630nm	162	33.8	4.8	12V DC
Green	520-530nm	429	89.4	4.8	12V DC
Blue	460-470nm	84	17.5	4.8	12V DC
RGB	-	653	45.4	14.4	12V DC

Other parameters

LED Qty (pcs/m)	Standard Packing Length (mm)	Max Run (m)	Min. Cutting Unit (mm)	LED Pitch (mm)
90	5000	1.5	33.3	11.1

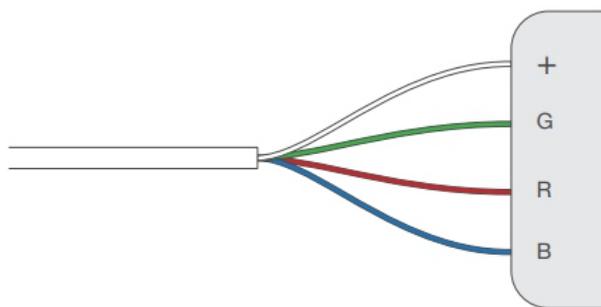
- Note:**
- test environment temperature is 25±2 °C
 - The above data was measured under standard conditions and actual data may be different. We would update data without further notice.
 - The above luminous flux data is based on corresponding light Color.
 - If the selected LED chip is different, the color temperature and luminous flux will change accordingly.
 - *Typical luminous flux and power error are ± 10%.
 - *The Max run length is based on one end power feed

Profile drawings



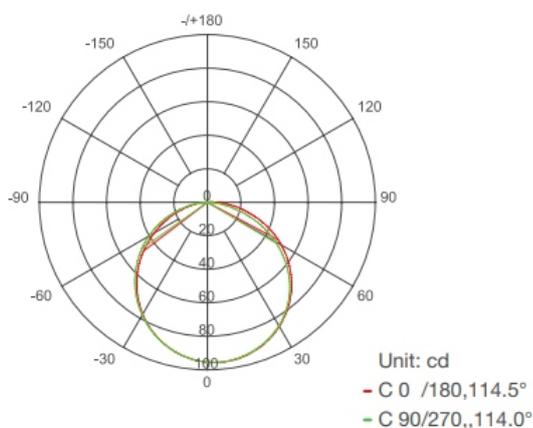
Note: For more info, please contact sales rep.

Wiring Diagram

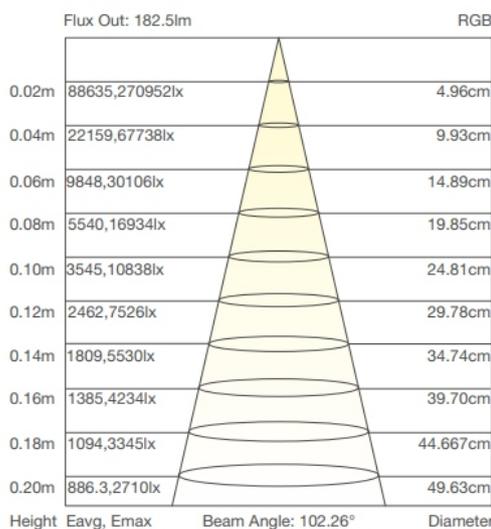


Note: „+” is the white wire.

Luminous intensity distribution diagram



AVERAGE BEAM ANGLE(50%): 114.2°



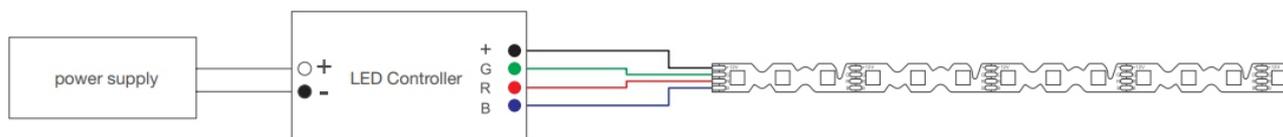
Recommended power supply upon working length

Operating Length (m)	1	1.5	2	3
Operation Voltage (DC V)	12.0	12.0	12.0	12.0
Total current (A)	1.13	1.20	1.75	2.02
Total Power (W)	13.57	14.40	20.99	24.14
Head voltage (DC V)	11.91	11.91	11.86	11.85
Tail voltage (DC V)	11.22	10.49	9.77	8.52
Head current (mA)	40.00	40.77	39.81	39.52
Tail current (mA)	34.03	30.84	22.64	14.12
Head-to-tail voltage drop rate (%)	5.79	11.92	17.62	58.10
Head-to-tail- current drop rate (%)	14.93	24.34	43.13	64.27
Single/Double feed	single	single	double	double

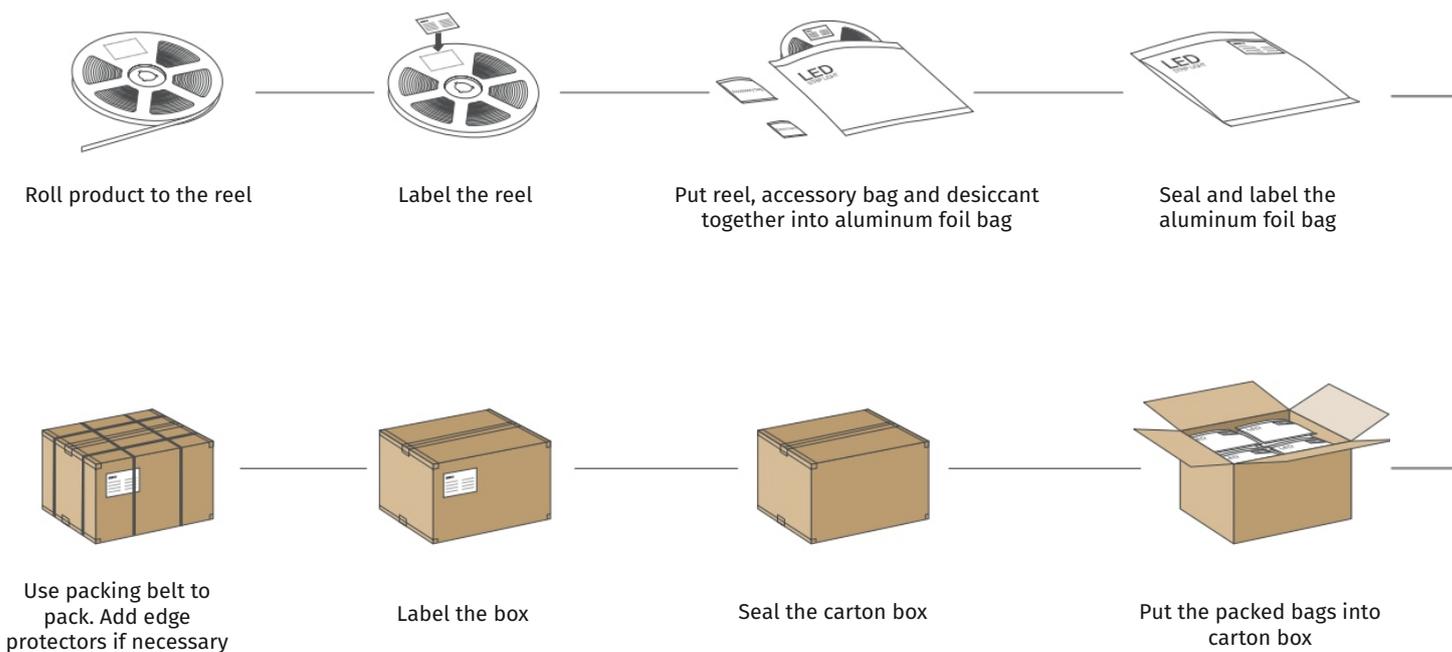
Installation tools



Controller wiring diagram



Packaging information



Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
5000*7	550*400*340	5	140	6.16 (1±10%)	9.89 (1±10%)

Note:

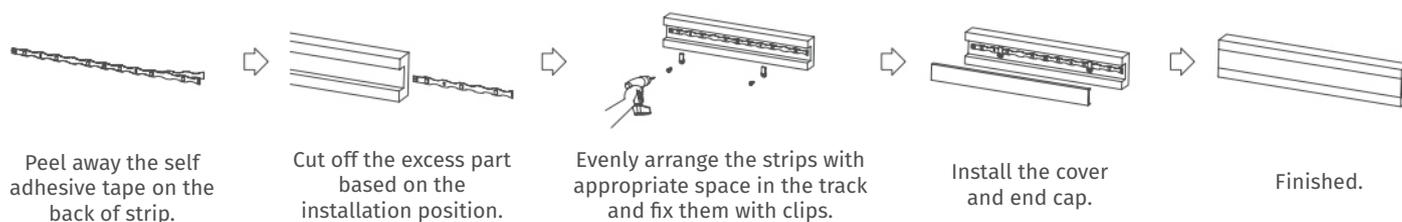
- One piece(5m) per reel, and the reel is packed in a bag, and finally put in a carton.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

Installation methods and steps

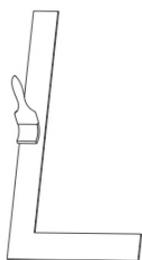
Aluminum channel installation



Covered channel installation



Aluminum channel installation



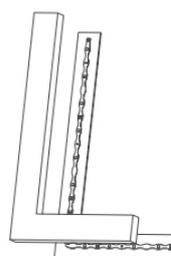
Clean the mounting backplate.



Peel away the self adhesive tape.



Install the strip to the mounting backplate.

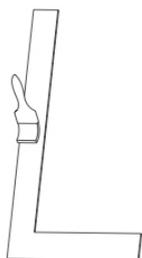


Install the cover.



Finished.

Groove-mounted illuminated letters



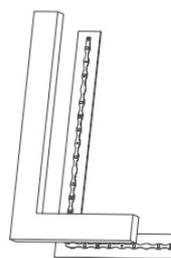
Clean the mounting groove.



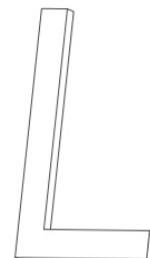
Peel away the self adhesive tape.



Install the strip to the mounting groove.

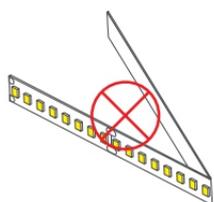


Install the cover.

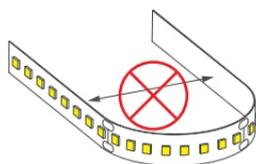


Finished.

Warning Mark



Do not fold the LED strip.



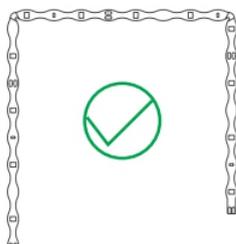
Can not bend less than min bending diameter.



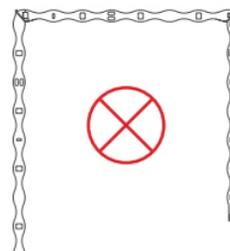
Do not cover the LED strip.



Do not light on the LED strip when it on the reel.



Bend around component locations.



Do not bend at component positions.

Attentions before installation

- Before installation, please check whether the parameters of the product are consistent with the requirements (Seeing the Product Specification or Label).
- The voltage, current, and power of the power supply and load used must be consistent with this product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Product wires must be correctly connected to the positive and negative terminals of the power output, otherwise the light will not turn on.
- The power cord should be tightly screwed into the terminal, with a recommended tightness that cannot be pulled out by hand.
- The connection terminals must be effectively waterproof and corrosion-resistant.
- If the installation length exceeds the maximum run length, extra power feed is needed.
- Auxiliary heat dissipation appliances must be added when the current of single LED exceeds regular value.

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements and recycling

Statements

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.