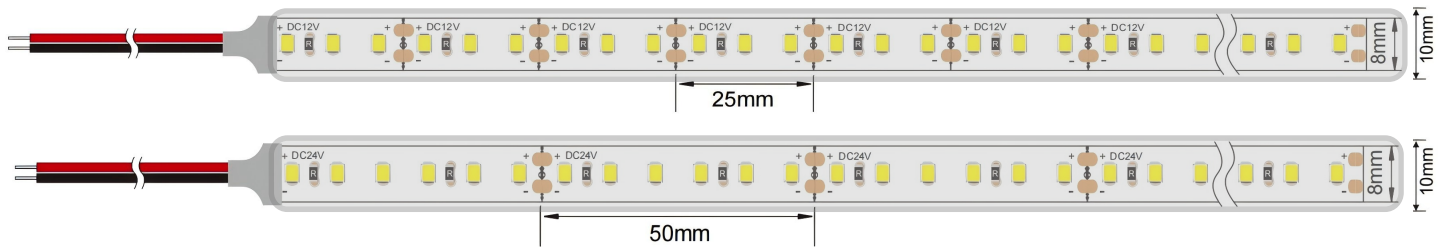


**SMD2835-120LEDs-DC12/24V-8MM****SPECIFICATION**

**120<sub>m</sub>**  
LED Qty

**12/24<sub>v</sub>**  
Voltage

**8<sub>mm</sub>**  
FPC width

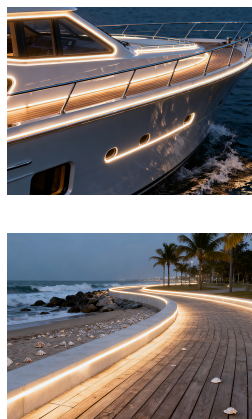
**12/14<sub>W/m</sub>**  
Power

**Product features:**

- IP68 waterproof design supports long-term underwater operation
- Fully silicone-encapsulated structure resists moisture and corrosion
- Single color temperature ensures stable and consistent light output
- SMD LEDs deliver uniform illumination with lasting brightness
- 12V 24V low-voltage input ensures safe and reliable operation
- Flexible strip allows easy bending and versatile installation
- Ideal for outdoor underwater and harsh environment lighting

**Application:**

Widely used for direct or indirect lighting in outdoor swimming pools, fountains, yachts, and bathtubs.



Product parameters:

General parameters

Product Model	GL-R1000TF-120x28 2835 120leds/meter
Color	WW,NW,CW
CCT(K)	2700K~6000K
CRI	Ra > 90
Beam angle	120°
Cut Distance	12V 25mm/ 24V 50mm

Environmental test parameters

IP grade	IP68
Working environment	-25℃~+45℃
Storage environment	-30℃~+80℃
Max connection Length	5m

Performance parameters

Lumen(±5%)	1080-1400lm/m
Efficiency(±5%)	90-100lm/W
Voltage	DC12/24V
Electric current	583-1000mA/m
Power	12-14W/m


Packaging parameters

A roll	5m
N.W(Roll)	700g
Qty/Carton	100m-20roll
Packing size(mm)	L360*W250*H280
G.W	14Kg










Wiring Diagram:



## Processing custom waterproof process:

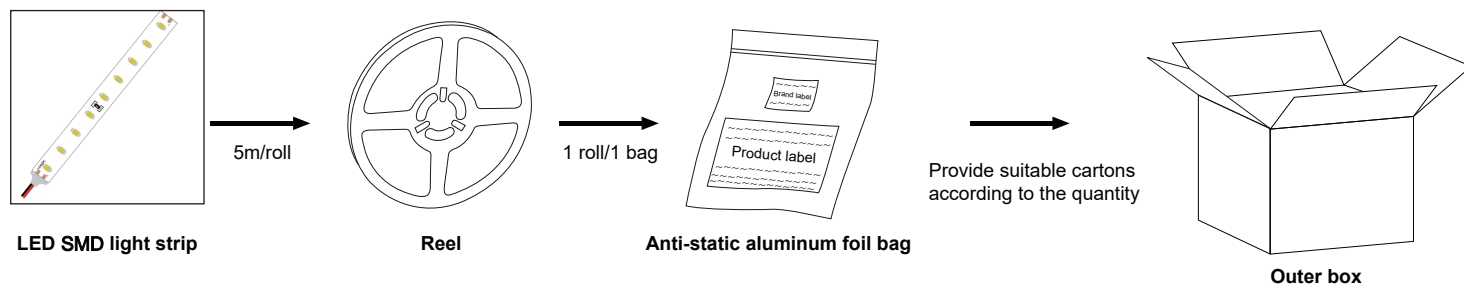


**Contrast of Process**

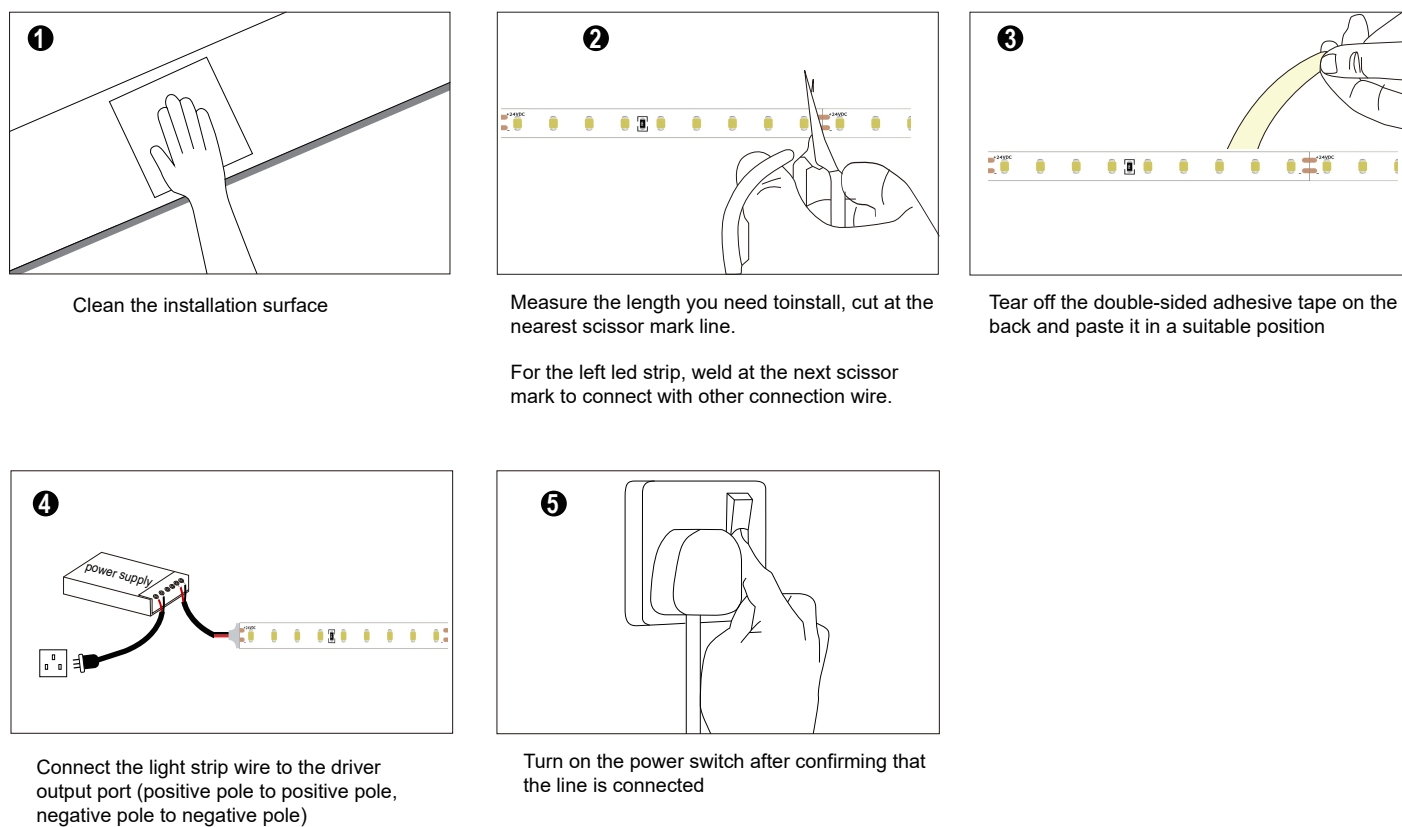
IP RATING	STRUCTURE	FEATURE	REMARK
IP20		Non-Waterproof	Indoor Use Only
IP54		Nano Coated	Thin Film Coating Anti Splash Water Tiny Size Changed (Same Looking as IP20)
IP65		Silicone glue Coated Waterproof Suitable for Damp Location	Silicone Glue Coating Dropping Anti Splash Water Tiny Size Changed
IP67A		Silicone Extrusion Waterproof Suitable for Short-time Wet Location	Extruding Process Suitable for outdoor places without standing water
IP67B		Silicone Tube Waterproof Suitable for Damp Location	Silicone Empty Inside Anti Spray Water Tiny Color Shift
IP67C		Silicone Extrusion Waterproof Suitable for Short-time Wet Location	Extruding Process Suitable for outdoor places without standing water
IP67D		U-Tube Installed Silicone Glue Waterproof Suitable for Short-time Wet Location	Silicone Glue Coating Suitable for outdoor places without standing water
IP68A		Silicone Tube Injected Silicone Glue Waterproof Suitable for Outdoor and Underwater	360° Silicone Filling Use for Outdoor and Underwater
IP68B		Silicone Solid Extrusion Waterproof Suitable for Outdoor and Underwater	360° Silicone Filling Use for Outdoor and Underwater

IP code : Ingress Protection Marking, IEC standard 60529

## Package:



## Installation diagram:



## Statements :

- 1). For safety, the product wire should be moved and replaced by the manufacturer, agent or other authorized person.
- 2). Please refer to the product manual before installation.
- 3). Above-refered schematic diagrams are from our standard product. Please subject to your actual product data if there is difference.
- 4). In actual use, we suggest 80% consumption of the driver. Keep 20% as power to start the led strip.
- 5). For safety, no touch the AC terminal.
- 6). Any acidic or alkaline substance is forbidden.
- 7). No notice for updated of this product.



Problem	Possible reasons	solution
All fail	<ul style="list-style-type: none"> <li>No power supply</li> </ul>	Give power supply.
	<ul style="list-style-type: none"> <li>Automatic switch-off because of the open circuit and short circuit</li> </ul>	Solve the problem, switch on again.
	<ul style="list-style-type: none"> <li>Wrong connection (positive connect with negative)</li> </ul>	Check and get right connection.
Part fail	<ul style="list-style-type: none"> <li>Part power-supply fail</li> </ul>	Check and make sure the power supply well.
	<ul style="list-style-type: none"> <li>Part circuit error</li> </ul>	
	<ul style="list-style-type: none"> <li>Part wrong connection(positive connect negative)</li> </ul>	Check and get right connection.
Inconsistent brightness or insuffiscent brightness	<ul style="list-style-type: none"> <li>overload of the driver</li> </ul>	Use higher-power driver.
	<ul style="list-style-type: none"> <li>Too big power consumption of the switch, or unbalanced power consumption from different strip series.</li> </ul>	Keep the strip working voltage is more or less 5% than the Rated voltage. 1.shorten the connection cable length, or change to thicker cable. 2.Make sure the strip quantity is less than the allowed connection quantity.Keep the led strip quantity of each series similar).
	<ul style="list-style-type: none"> <li>Too many Led strips connection</li> </ul>	Adjust the led strip quantity, make sure sufficient power supply.
LED flash	<ul style="list-style-type: none"> <li>Poor welding connection of wires</li> </ul>	Check,find and solve it.
	<ul style="list-style-type: none"> <li>switch problem</li> </ul>	Change to right switch.