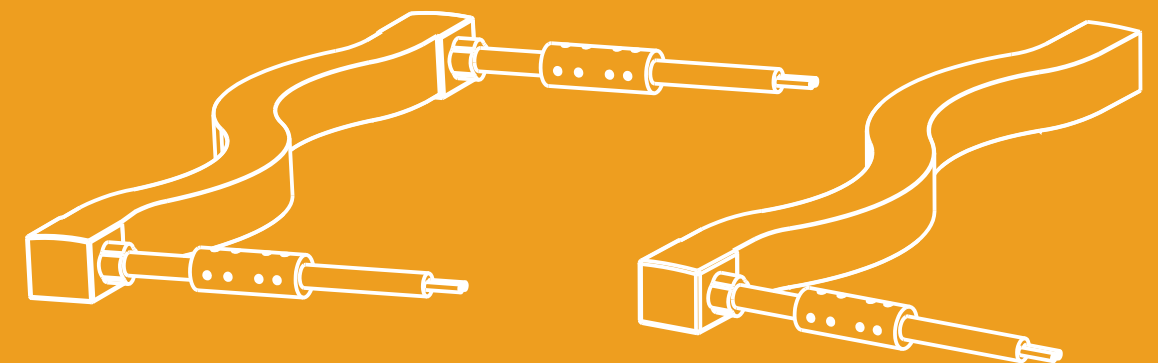




GLOW+LED STRIP

Installation and Operation Manual



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USER MANUAL

 **STRIVE FOR CLEAR WATER**

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1. PRODUCT INTRODUCTION

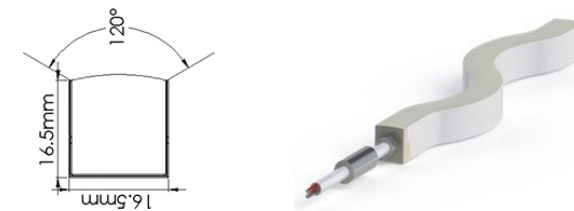
The underwater LED strip is designed for to latest waterproof technologies in IP68. It is an extendable and top view bendable LED light strip tube with a 120-degree beam angle and flat rectangular emission for creating underwater profile lighting.

It can be controlled by a manual or wireless remote dimmer for lighting effect tuning. The LED strip includes a range of white CCT from 2700K/3000K/3500K/4000K/4500K/5000K/5700K/6500K. To provide a long-life span, reinforced PVC material can resist the harm from UV, saltwater, flame solvents, and dirt, etc. There are seven type of wiring connectors are providing mounting flexibility for layout connections.

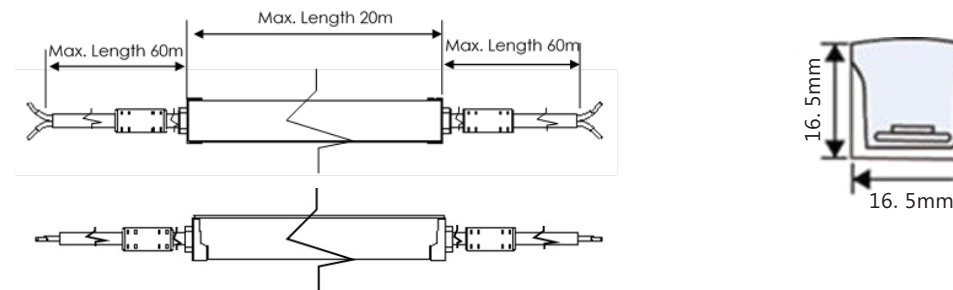
2. SPECIFICATION

2.1 ELECTRICAL

Operation Voltage Range: DC24V
 Max Power Rating/meter: 10W
 Bean angle: Top view 120 degree

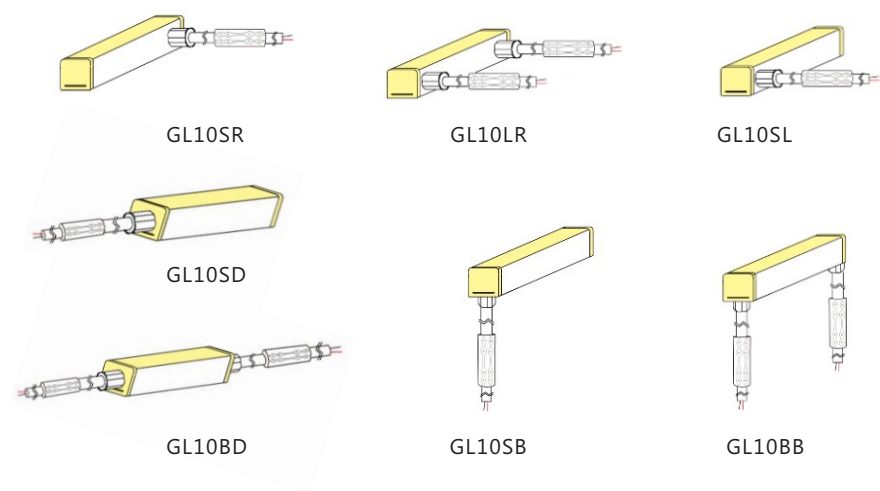


2.2 DIMENSIONS (mm)



2.3 WIRING CONNECTOR TYPE AND PART NUMBER

CODE	Model	Description
9042915	GL10	LED strip max 20m length
9042901	GL10SR	Power connector side right
9042903	GL10SL	Power connector side left
9042905	GL10LR	Power connector side both
9042907	GL10SD	Power connector side direct
9042909	GL10BD	Power connector side both direct
9042911	GL10SB	Power connector side bottom
9042913	GL10BB	Power connector side both bottom



Code example: 9042915 (length 5 meter, CCT 3000K) + 9042901 = 5m LED strip, color temp 3000K with power connector side right.

2.4 POWER SUPPLY AND DIMMER

24V DC power supply provides LED strip power source and dimmer with remote control to adjust the brightness of the strip.

Code	Mode	Description
E042901	Dimmer Controller	LED Dimmer with remote
106328534	Power Supply HLG-240H-24	24V, 240W, 100-240V AC 50/60Hz input voltage, IP67
106328535	Power Supply HLG-120H-24	24V, 120W, 100-240V AC 50/60Hz input voltage, IP67

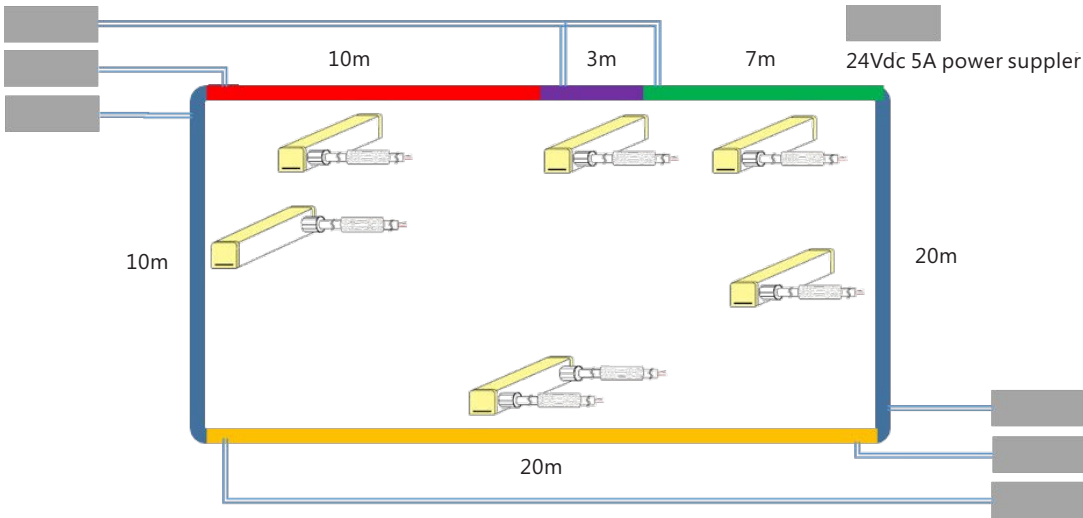
Dimmer with Remote Handset



Not in scale

3. DESIGN EXAMPLE

Design a regular shape 10x20m rectangle pool in 3000K color temperature.



Order details for side power connection cable

Code	Description	length(m)	Quantity
9042915 + 9042901	GL10, 10m, color temp 3000K, GL10SR connector side right	10	2
9042915 + 9042901	GL10, 3m, color temp 3000K, GL10SR connector side right	3	1
9042915 + 9042901	GL10, 7m, color temp 3000K, GL10SR connector side right	7	1
9042915 + 9042903	GL10, 10m, color temp 3000K, GL10SL connector side left	10	1
9042915 + 9042905	GL10, 20m, color temp 3000, GL10LR, connector side both	20	1
105328534	24V 5A power supply		6

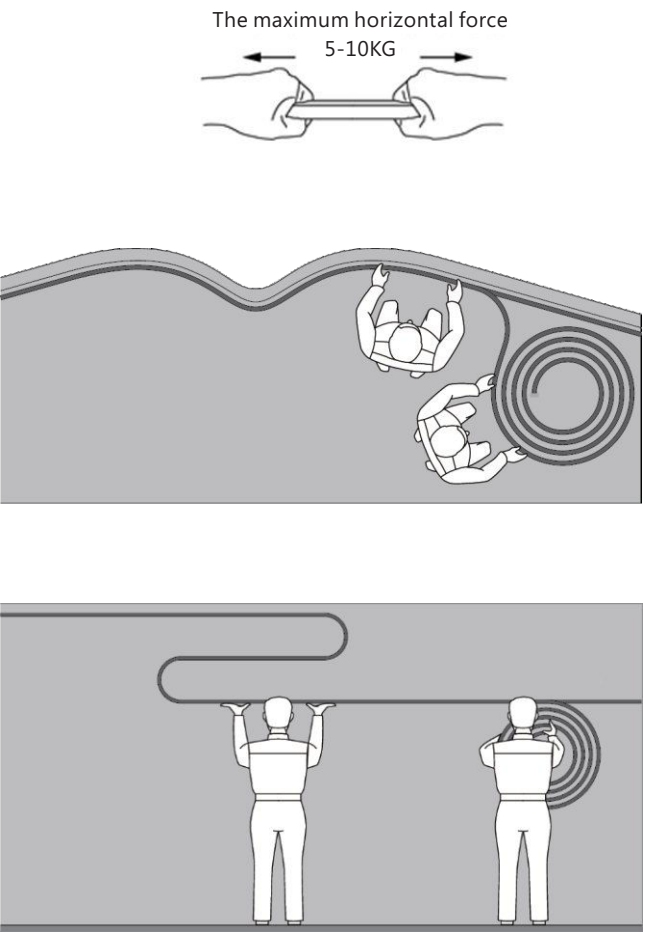
To configure the connector orientation for better installation convenience, change the connector model to GL10BD for both side straight connector and GL10SD for single end straight connector.



Code	Description	length(m)	Quantity
9042915 + 9042909	10m, color temp 3000K, power connector both side direct	10	3
9042915 + 9042907	3m, color temp 3000K, power connector side direct	3	1
9042915 + 9042907	7m, color temp 3000K, power connector side direct	7	1
9042915 + 9042909	10m, color temp 3000K, power connector both side direct	20	1
105328534	24V 5A power supply		6

4. MOUNTING

1.Installing the Glow+ LED stripe required at least 2 people. Make sure the bending radius is not exceeded while installation. Maximum horizontal force not exceed 10KG

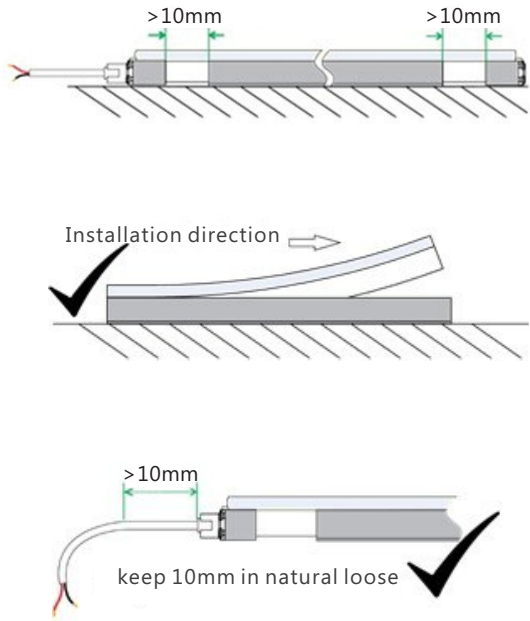


2. Mounting clip
There are 3 different length of plastic mounting accessories to fit into the mounting and one stainless steel for corner mounting reinforcement.

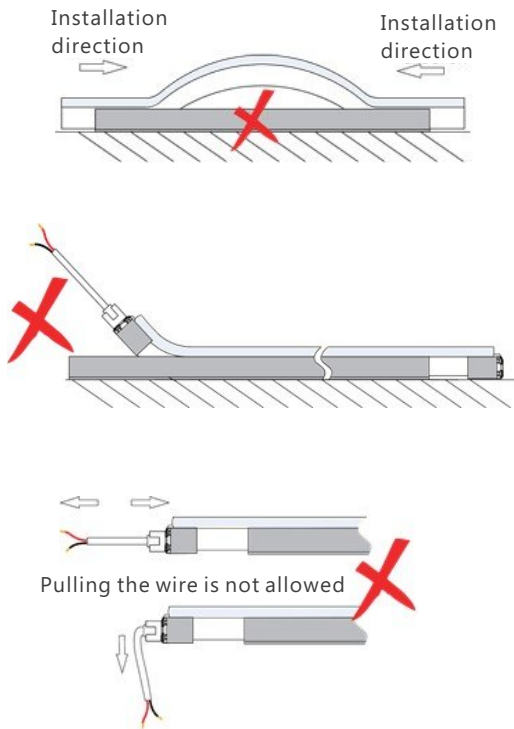
Code	Mode	Description
106090026	GLPMC	Plastic Mounting Clips Transparent 35mm
106090027	GLPMC1M	Plastic Mounting Channel Transparent 1m
106090028	GLSMC	Stainless steel Mounting Clip 5cm
106090029	GLDIYSC	DIY End Connector Kit



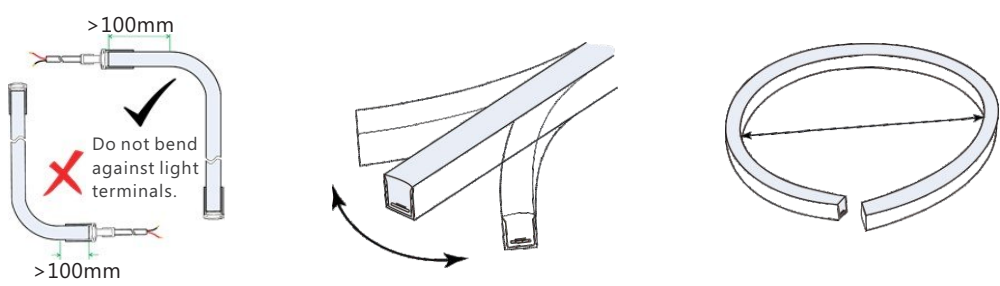
Good mounting example



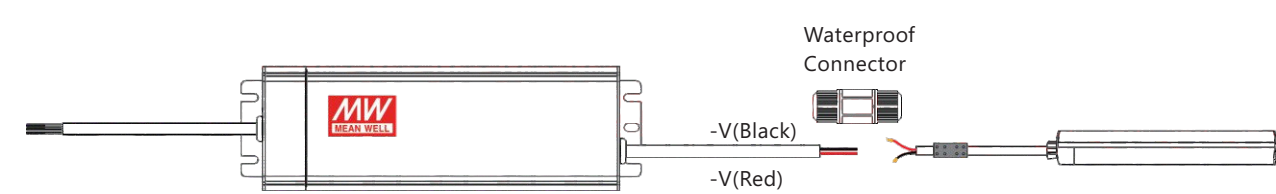
Bad mounting example



Bending:



Mount the cable junction in waterproof junction box when apply to outdoor mounting.



5. ELECTRICAL INSTALLATION

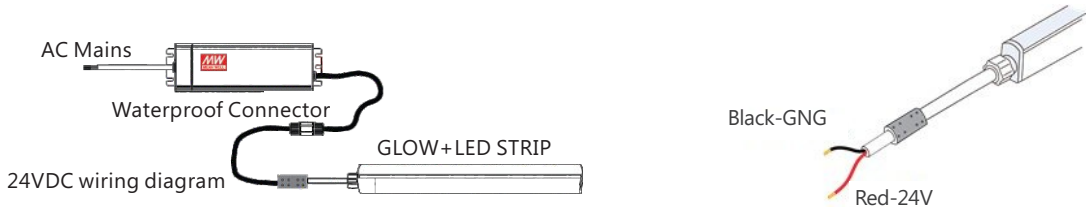
The system operation is 24Vdc only and current rating is 5A per 10 m strips. Therefore, a 120W minimum power supply is required to turn on the light in full brightness.

Rated power	120W	240W
LED Strip length	9.5m	19m

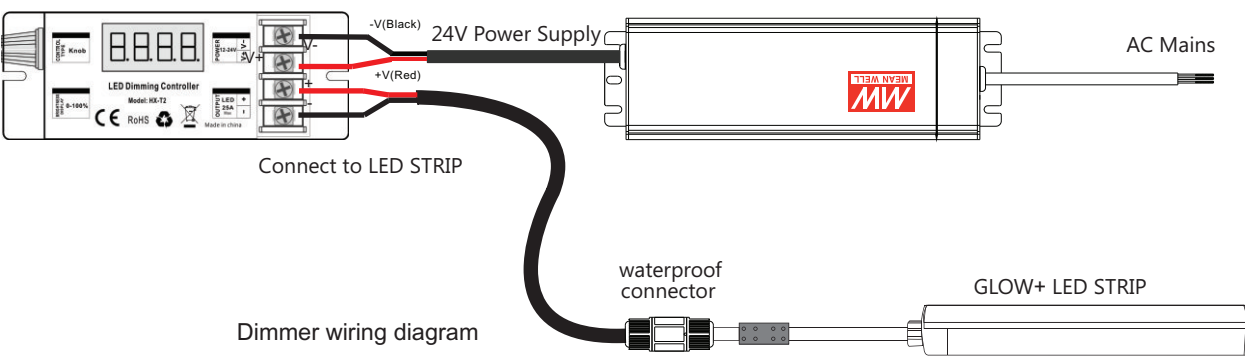
Locate the power supply nearby the LED strip and connect the terminal wiring. The recommended distance is as below table.

Watts of light	18AWG	17AWG	16AWG	14AWG	12AWG	10AWG
	0.82mm ²	1.04mm ²	1.38mm ²	2.07mm ²	3.29mm ²	5.62mm ²
	2m	2.5m	3m	4m	8m	12m

1.Connect the Red wiring of LED strip to Red wire of Power Supply.



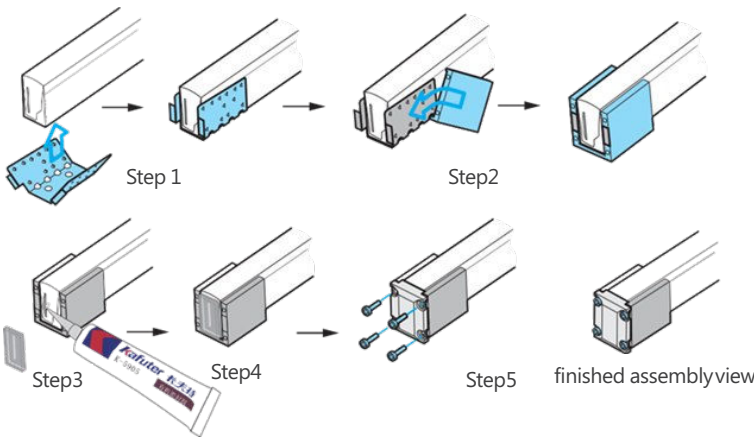
2.Wiring diagram with dimmer



6. HOW TO USE GLDIYSC TO CUT THE STRIP AND END CAP ASSEMBLE



If it is necessary to cut the LED strip to fit into the layout, use the GLCUTTER to cut the length where marked for the "Dotted Line" or "Scissor Mark". The cut section must have the appropriate IP rated cap flex accessory to maintain water proof IP ratings.
Follow the steps below for end cap assemble after cutting.



Step 1 - Place the anti-skidding clip on the very end of the tubing with the 2 tiny tabs that are pointing inwards still touching the end of the material and crimp in place.
Step 2 - Line up the aluminum mounting piece so the screw hole face the plug and slide on over the anti-skidding clip.
Step 3 - Apply 100% clear silicone onto the end face of led neon flex
Step 4 - Place the rubber gasket squarely onto the end face of led neon flex.
Step 5 - Screw the blank end to the aluminum mounting piece.

Code	Model	Description
106090030	GLCUTTER	LED Neon Cutter