

GV50-CL



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- GV50-CL LED solar wall light, built-in 3.7V 3000mAh lithium battery.
 - 6V/2W powerful solar panel, high electrical efficiency (18%) polycrystalline silicon with PET laminated panel.
 - 120LM/W, 80 pieces high luminous efficiency LED Chip integrated package.
 - Professional PIR sensor design, three lighting modes.
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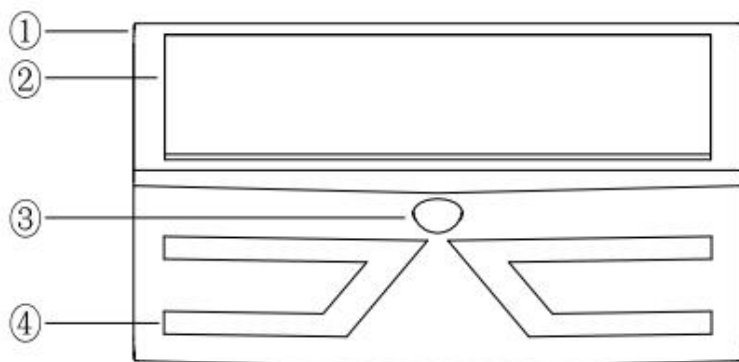
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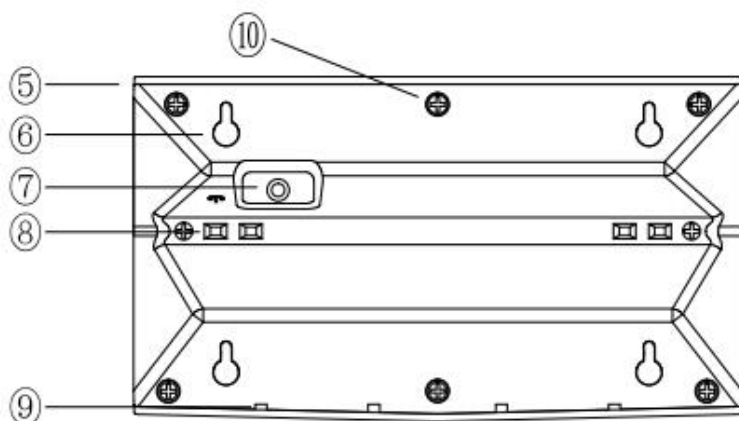
1. Product Description

This solar LED light is designed with built-in 18650 Li-ion battery; Widely used in sunny places (It also can be charged when the light is weak, but the generated current is relatively slow and can't meet LED working current consumption), such as fences, walls, gates, courtyards, buildings and so on. Charging during daytime, lighting at night. Three alternative smart lighting modes fulfill your needs.

Designed with professional PIR sensor, auto lighting by human body sensing. Using intelligent IC control system to ensure safety during charging, discharging and transportation. Eliminate the danger of batteries damage and even explosion caused by over-loaded or over-discharged. The product is strictly in accordance with IP65 waterproof design structure, safe and practical.



Front View



Back View

NO.	Name
①	Front Outer Case
②	Solar Panel
③	PIR
④	Main Light
⑤	Back Outer Case
⑥	Screw Mounting Position *4
⑦	On&Off and Mode Switch
⑧	Backlight
⑨	Drain Hole
⑩	Supporting Foot

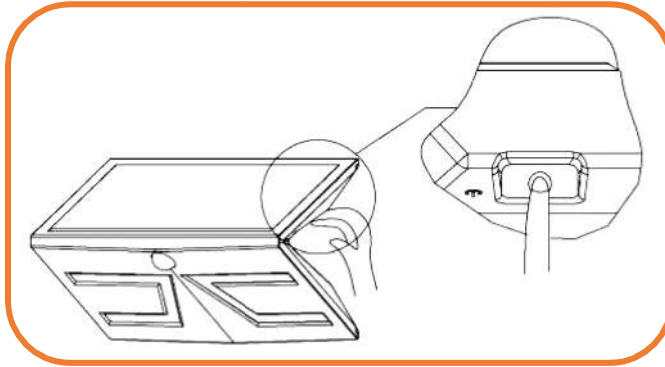
Structure Description

2. Product Instructions

2.1 The product would lose some energy during transportation or long term storage. Please charge it under sunlight before you use it. And make sure you have switched the lamp on before using it.

The product is designed with button-switch, which is located on the back of the lamp.

You can cover the solar panel in day time to see whether the lamp is switched on.



On&Off and Mode Switch

2.2 Working Mode

GV50-CL is designed with PIR sensor; there are 3 working modes as options.

See below for detailed working schedule (this is the recommended working mode).

Press again, lamp will go into the 2nd working mode. Another press, lamp will enter the 3rd mode.

If you press again after the 3rd working mode, lamp will be switched off.

Lamp will go into standby automatically when no motion is detected during the night. The sensing range covers 120° , with around 6-8m coverage (2m mounting height).

① Sensing Mode:

Charging during daytime, lighting at night. Front light will keep 15s lighting each time. Full bright when motion detected, auto off after 15s. Then backlight continues lighting for 1 min when front light off. Off - Bright - Off as a cycle.

② Sensing+Dim Mode:

Dim light (20% brightness) stays in the dark. Full bright (lighting 15s) when motion detected, and then auto change to dim light, backlight will continue lighting for 1 min. The dim light keep lighting until next motion detected. Dim-Full Bright-Dim as a cycle.

③ Continuous Lighting Mode:

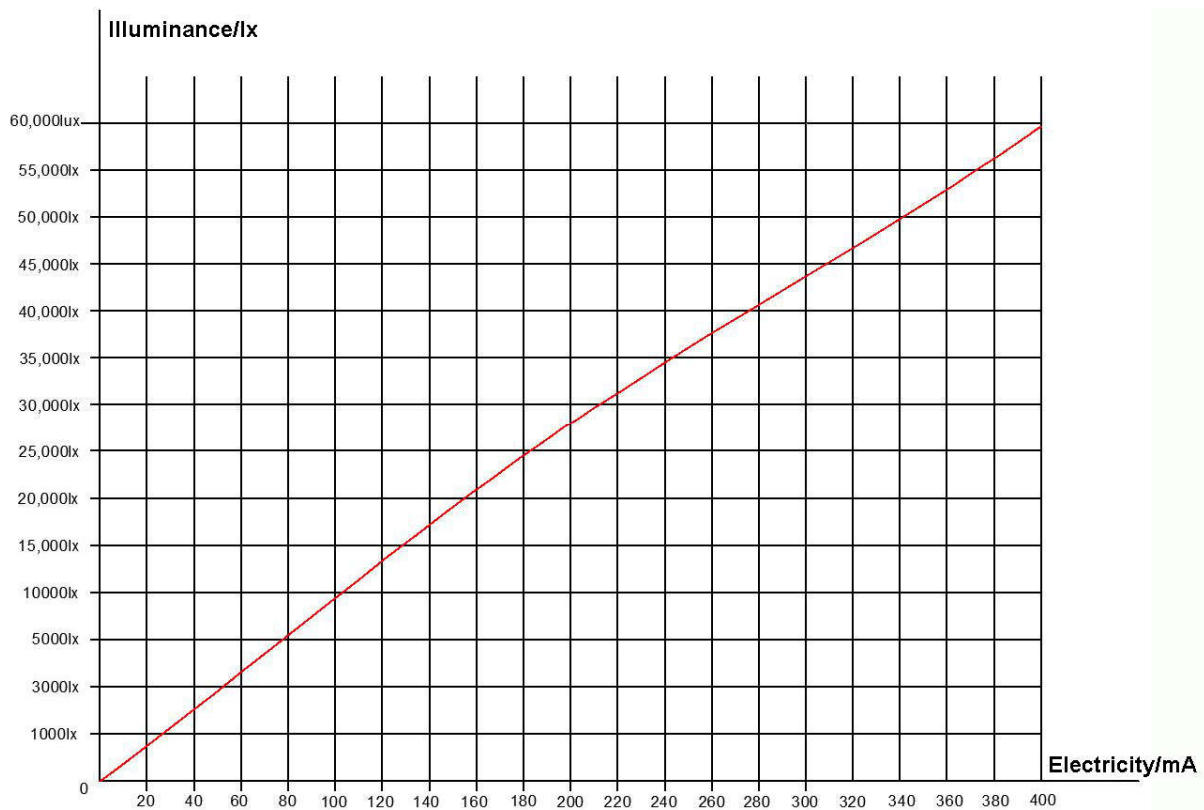
Front light will keep lighting all the night. This mode will consume the power sharply and the light will shut down depends on battery capacity, or automatic sensing light and switch to charge mode the next day.

3. Product Parameters

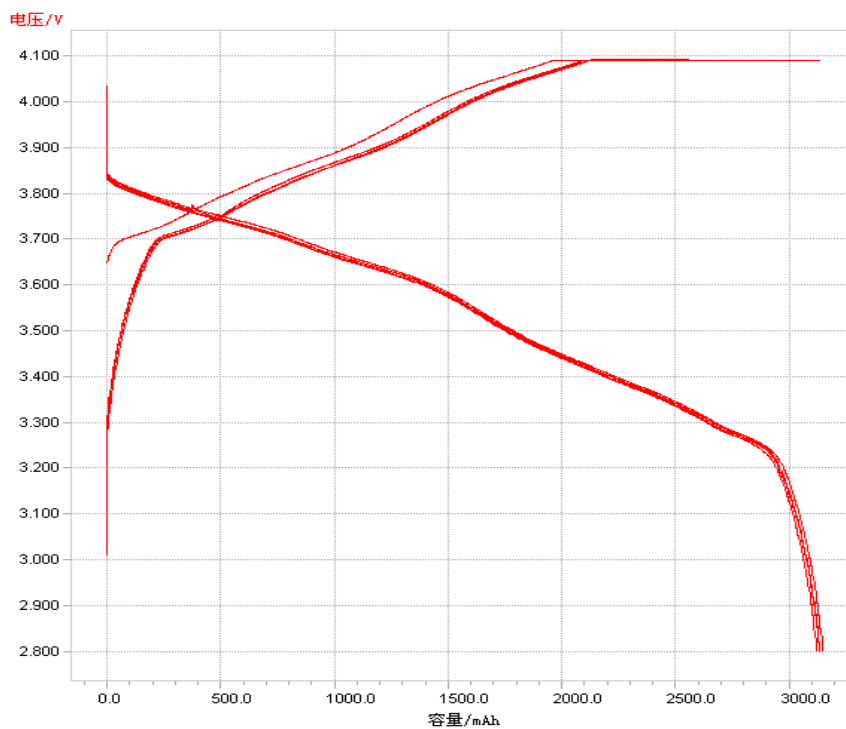
Technical Data Sheet:

Name		Model	Characters
		GV50-CL	
Photoelectric Parameters	Lighting Mode	Sensing Mode/ Sensing+Dim Mode/ Continuous Lighting Mode	
	Sensing Way	Human Infrared Sensing Beam Angle:120°/ Distance: 0~8m	
	Solar Panel	Polycrystalline Silicon Laminate Panel 6V 2W	Conversion Efficiency≥18% 25 Years Working Life
	Battery	Li-ion Battery: 3.7V 3000mAh	Charge & Discharge Cycle Times > 500
	LED Source	front light COB (0.2W*80PCS) +backlight 4PCS RGB, warm white	luminous efficiency 120lm/w, Lifespan>100,000h
	Housing Material	ABS	
	Color Temperature	6000K	
	CRI	>80	
	Lumens	600lm	
	Charge Time	8~12 H	AM1.5、1000W/m ² 25°C Standard Conditions
	Lighting Time	>12 H	>500times (15s/time Mode1)
	Protective Function	Overcharge/ Over discharge /Short Circuit Protective	
Comprehensive Parameter	Work Temperature	-20~60°C	
	IP Rating	IP65	
	Size	L210*W118*H80mm	
	Net Weight	380g	

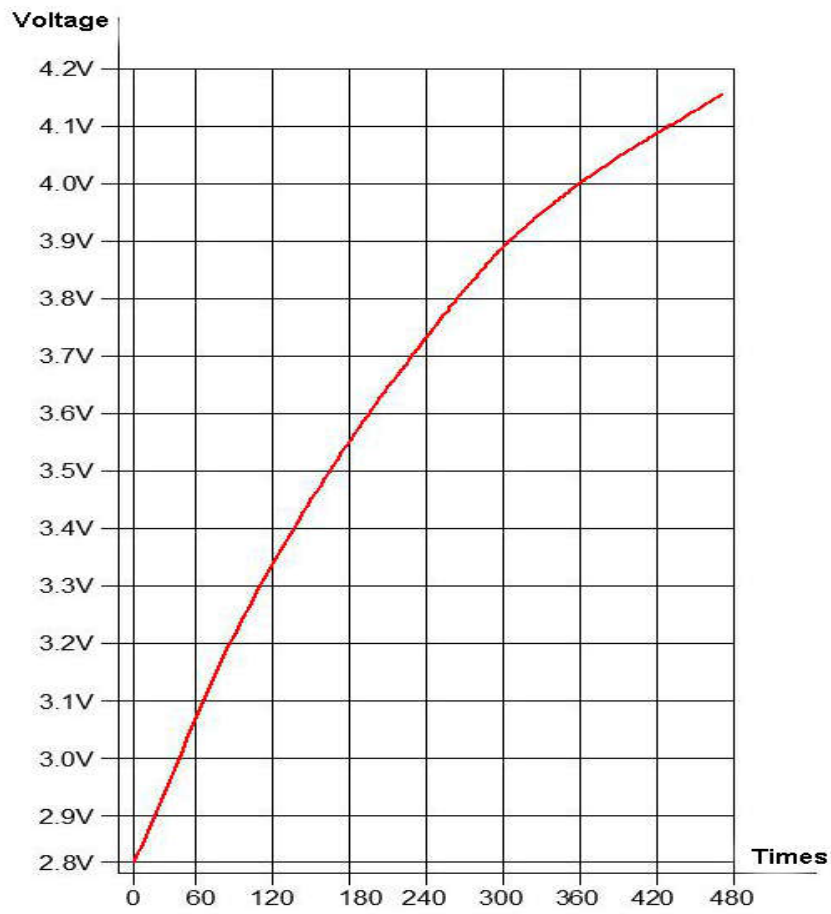
3. Solar Charging Parameters Charts



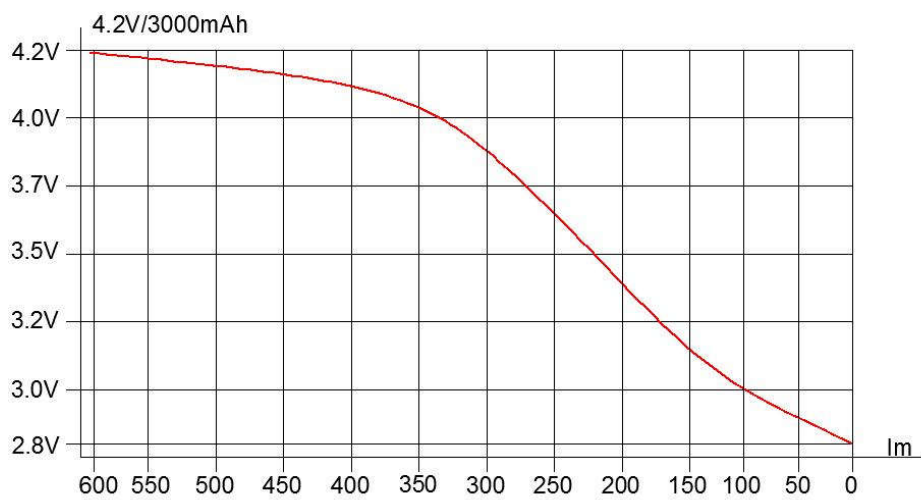
3.2. Li-ion Battery Charge/Discharge Parameters Diagram(3 times)



3.3. Fixture Lighting Parameters Charts



GV50-CL Sensing Times and Battery



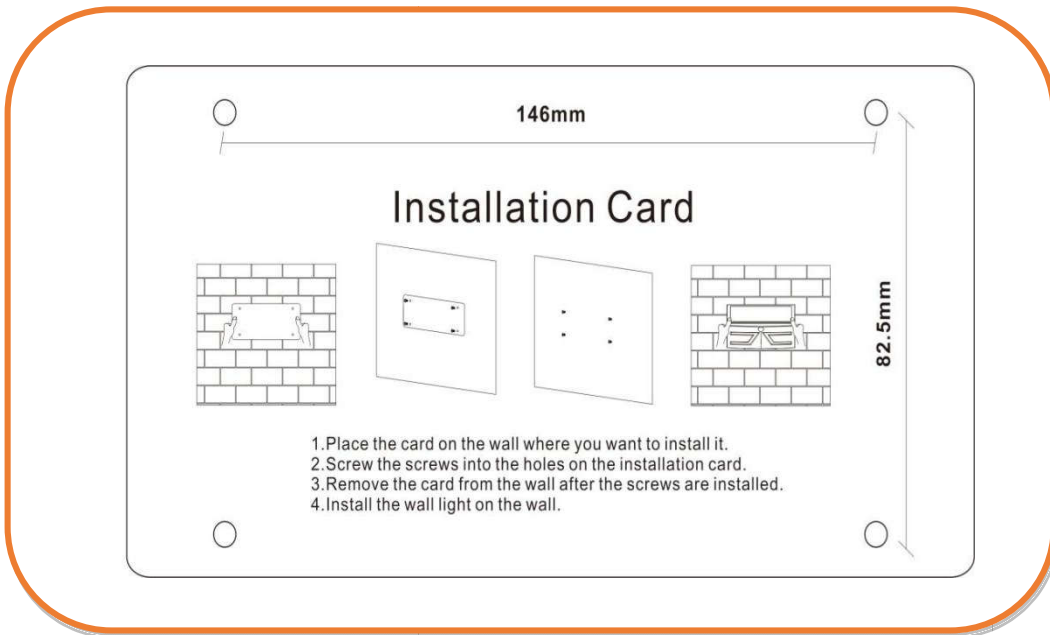
GV50-CL Brightness and Voltage

4. Installation Notes

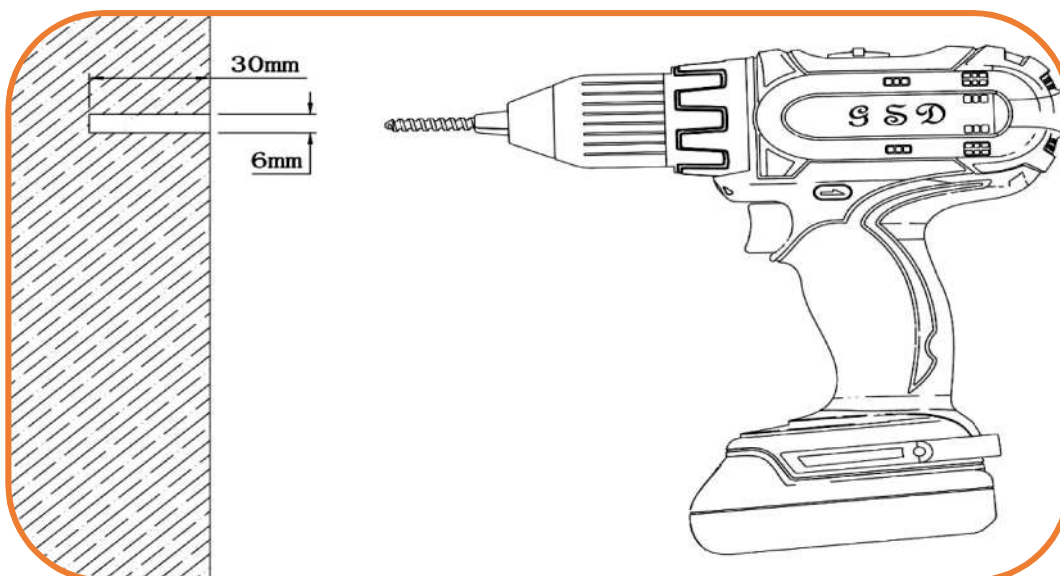
This product provides expansion bolt and screws for installation. During installation, solar panels are facing upwards to the sun to allow charge during the day, meanwhile lighting part down to the ground. The recommended installation height is 2~3M.

4.1 The installation method as follows:

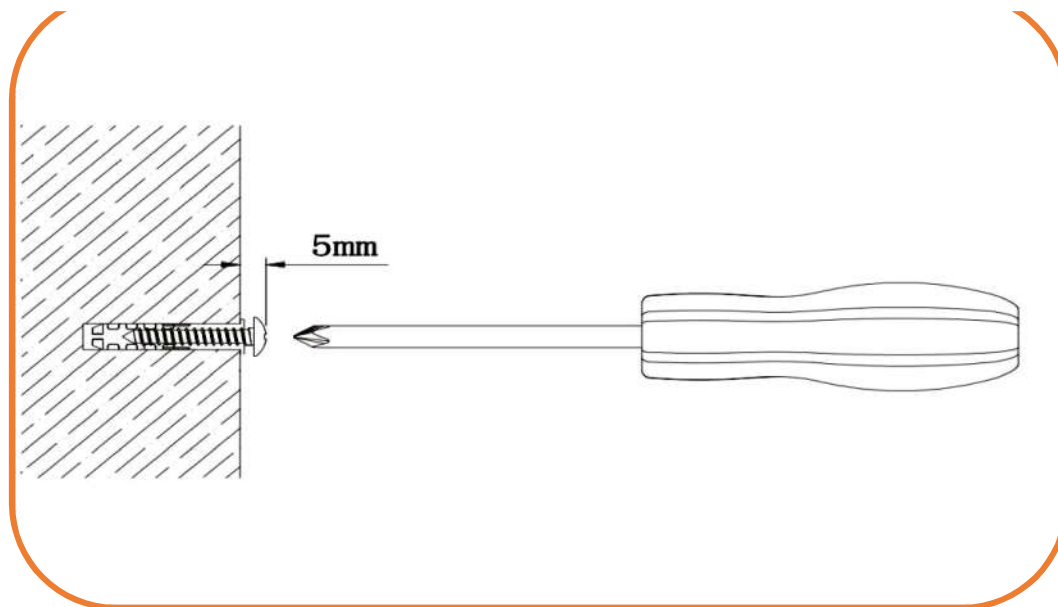
- ① Use the installation card to mark four mounting holes position, with lateral spacing 146mm vertical spacing 82.5mm.



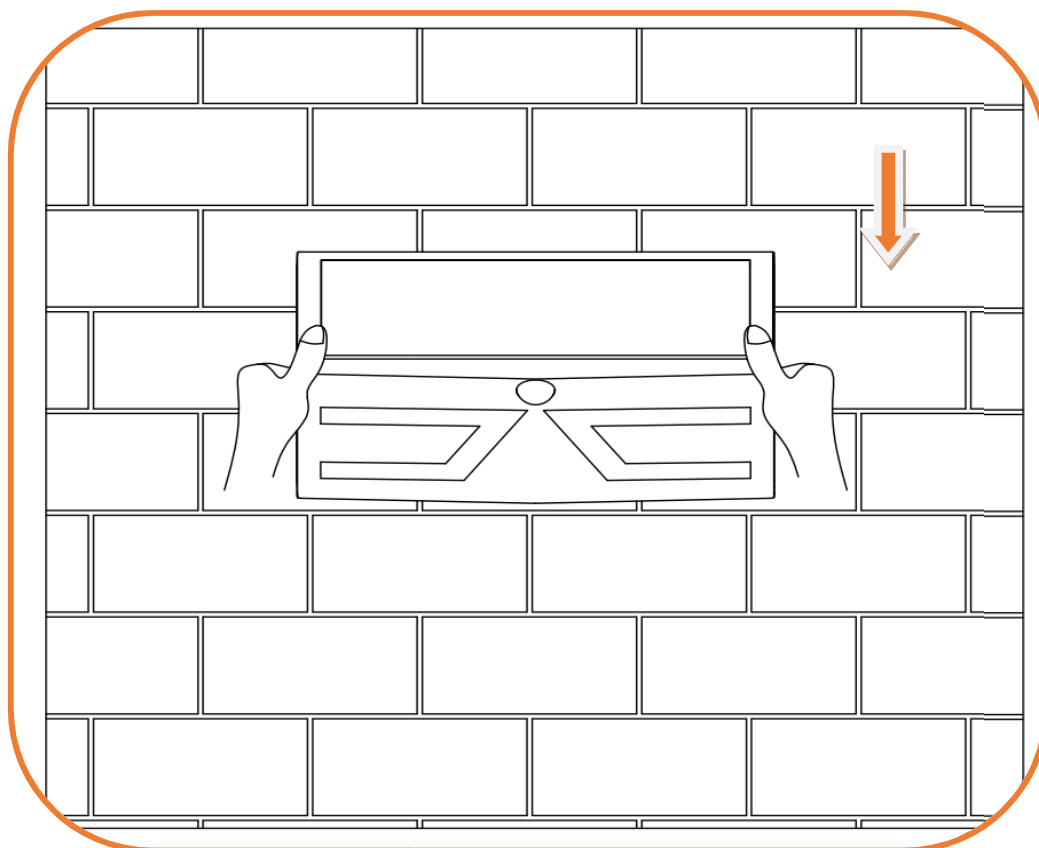
- ② Drill a hole by electric drill in the first marked position, with diameter 6mm depth 30mm.



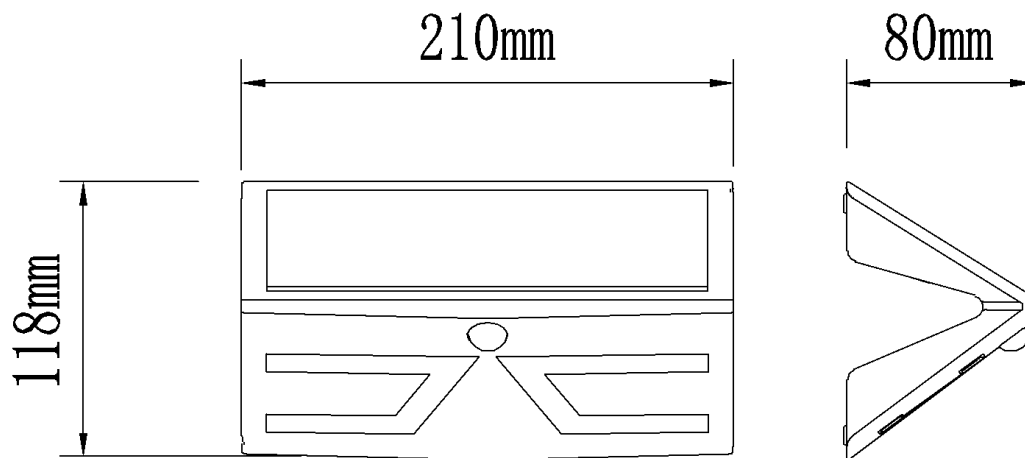
- ③ Insert the expansion bolt into holes, and lock screw into the hole below. The screw head can be 5mm away from the wall.



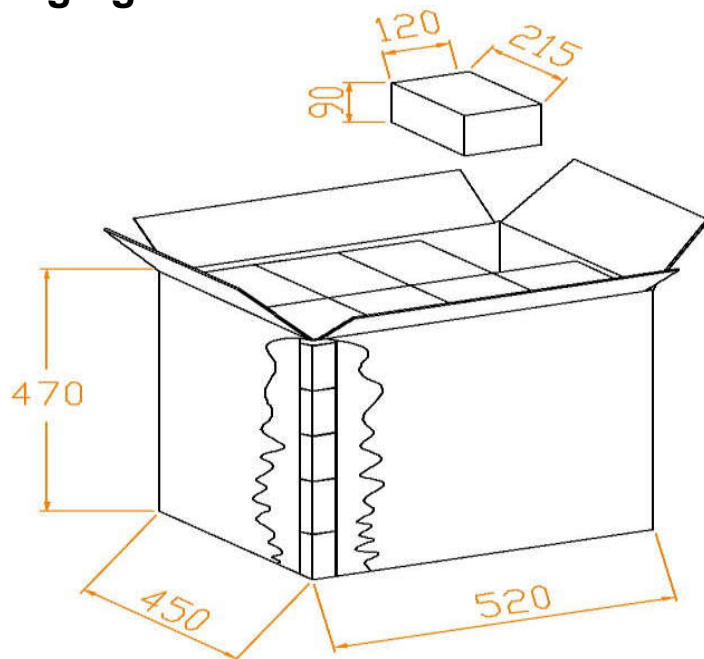
- ④ Lock the fixture mounting holes on the screw, and fasten the lamp downwards by hand to make sure it firmly mounted.



5.Product Size



6. Packaging Information



Please store the light in a dry and cool place when long term storage(more than 3 months). Charge and discharge it at least once every 6 months.

Package	Product Quantity	Package Size	G.W
Color Box	1PCS	L215*120*90mm	480g
Carton Box	40 PCS	L520*W450*H470mm	20.5KG

7.Faults and Solutions

NO.	Failures		Solutions
1	Does not work	<ol style="list-style-type: none"> 1. The fixture is not turned on. 2. Battery is not fully charged. 3. Fully charged but still not working. 4. PIR Sensor is broken. 	<ol style="list-style-type: none"> 1. Cover solar panel completely and turn the unit upside down to test, press the button 3 seconds to check out the fixture switched on or not. 2. Make sure solar panel orientated to sunny places and full charged more than 12 hours , then to do as step 1. 3. The product will keep charging state if light sensed, so please cover the solar panel completely and recheck. 4. If all above 4 options excluded, PIR sensor could be damaged , kindly contact us and return to factory for repairing.
2	Front light illuminates, while backlight not	<ol style="list-style-type: none"> 1. All backlight are out. 2.Part of the 4 backlight. 	<ol style="list-style-type: none"> 1. The lighting mode designed that backlight will light up (1 minute) after front light turned off (15 seconds lighting). 2. Faulty backlight LEDs, kindly contact us and return to factory for repairing .
3	Come and go lighting	<ol style="list-style-type: none"> 1. Battery is not fully charged. 2. Performance decreased of solar panel 	<ol style="list-style-type: none"> 1. Set the solar panel orientated to sunny places and fully charged more than 12 hours. 2. Low charging capacity of solar panel caused by season changes, light and low temperature in winter.
4	Can't charge	<ol style="list-style-type: none"> 1. Fully charged but can't light up at night. 2. Battery or solar panel broken. 	<ol style="list-style-type: none"> 1. Notice charging orientation and time. 2. No lights at all after fully charged, contact us for replacement.

8.Attentions

Notes:

- ① Please install the fixture in a sunny place and ensure mounted firmly.
- ② To avoid damaging the PIR sensor, installation and using should be away from heat, fire and acid-base corrosion conditions.
- ③ Please keep solar panel facing up and light source down when install.To cope with changing daily temperature, humidity and air pressure, the vent holes designed at the bottom of light.
- ④ IP65 is suitable for daily outdoor use, but not for harsh environments. It is strictly forbidden to soak the product, damage by limited space heating and pressurization isn't allowed, and this will invalidate any warranty.
- ⑤ A clean rag used for daily cleaning, corrosive solvents is not allowed.
- ⑥ It is forbidden to dismantle the light without professional. Shell and solar panel is eco-friendly and can be recycled. Please recycle the lithium battery in the proper way.