

NEW DESIGN

QH Series
Integrated Solar Street Light With
Adjustable LED Module



High Cost
Performance



High Quality



High Brightness



5-7 Cloudy/
Rainy Days



Human Body
Induction



Remote Control



Adjustable LED Module



IP66 Waterproof

INTRODUCTION

Product specifications



Front Cover



Catalog



Advantages



Specifications



Exploded View



Light Distribution
Curve



More Details



Controller Instruction



Remote Control Instruction



Dimension Figure



Pull-out Battery Box



Package Detail



Installation Instruction



Applications

QH Series | Advantages



Product Advantages:

1. Designed by a professional industrial design team, integrating solar panels, led sources, controller, battery, human body induction, and housing.
2. Adjustable LED module, suitable for road lighting in various terrains.
3. Intelligent power adjustment, automatic weather judgment, reasonable planning of discharge rules.
4. Intelligent charging and discharging management, soft and hard double protection of charging and discharging and intelligent equalization technology, battery cycles more than 2500 times.
5. Smart remote control, equipped with drone remote control, ultra-long remote control distance of 30 meters, can pass through obstacles, and can set four lighting modes at will.
6. High-efficiency LED chips can reach 220LM/W, which is more than twice the average brightness of ordinary LED light sources, with a luminous angle of 140 degrees, and a wider irradiation area.
7. The battery box adopts a pull-out modular design, which is easy to install and disassemble, and it is very simple to replace the battery and controller.

QH Series | Advantages



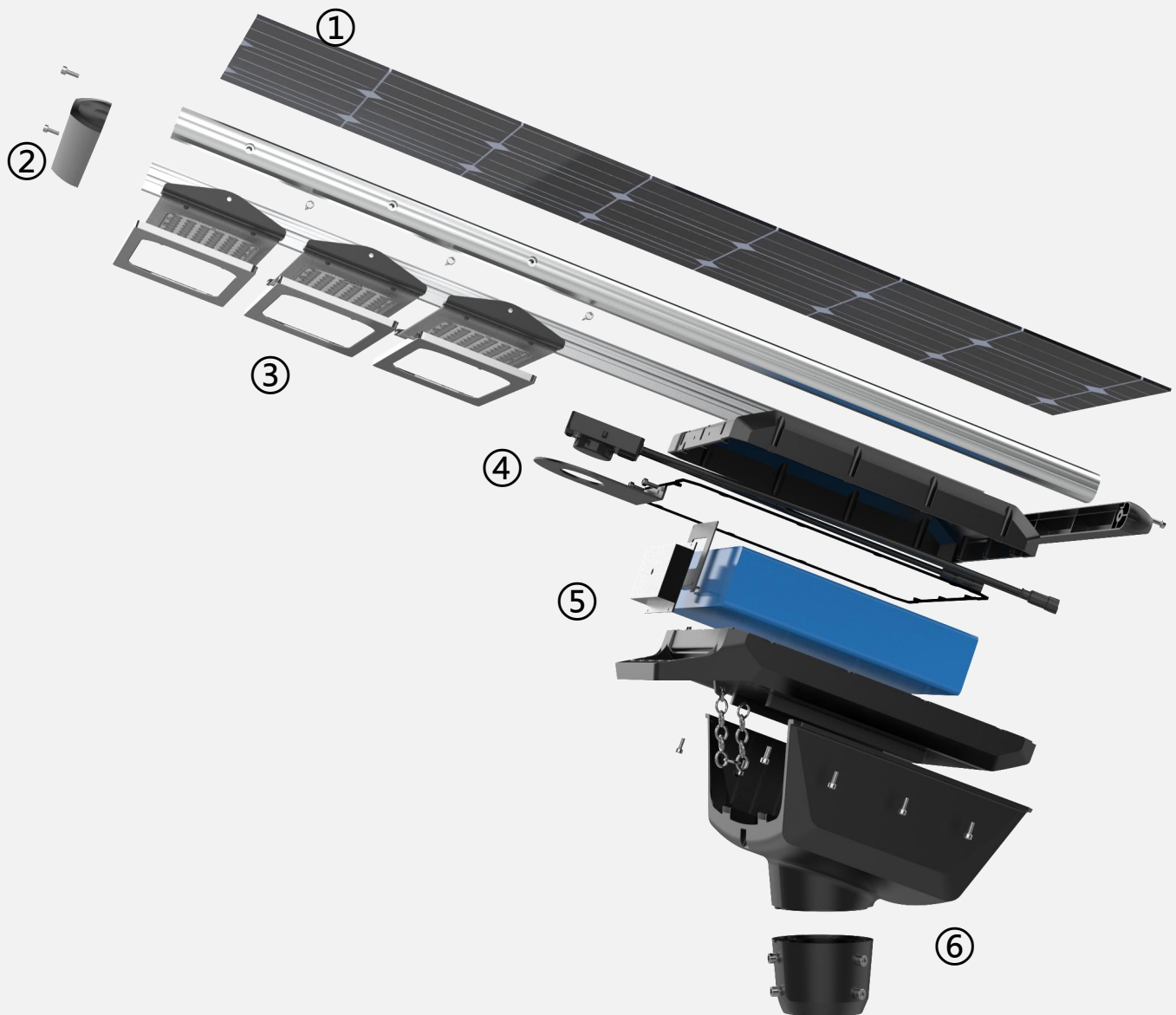
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QH Series | Specifications

Led Source	QH-60W	QH-80W	QH-100W	QH-120W	QH-150W	QH-200W	QH-250W
Mono Solar Panel	18V 80W	18V 100W	18V 130W	18V 140W	18V 150W	36V 200W	36V 250W
LifePO4 Battery	30AH 12.8V	45AH 12.8V	45AH 12.8V	60AH 12.8V	75AH 12.8V	45AH 25.6V	60AH 25.6V
LED (Bridgelux)	5050/96 PCS	5050/144 PCS	5050/192 PCS	5050/192 PCS	5050/240 PCS	5050/288 PCS	5050/336 PCS
Color Temperature	2700K-6500K, RA>70						
Brightness	190LM/W						
Working Time	12-15hours, 5-7 cloudy/ rainy days						
Charging Time	6-8hours						
Mounting Caliber	70-76mm (suggestion)						
Working Temperature	-25°C - +65°C						
Body Sensor	160°, >9m , Activated by customer's need						
Battery Power Indicators	100%-75%-50%-25%						
Fault indicator	RED/BLUE/GREEN						
IP Rating/IK Class	IP66/IK10						
Mounting Height	6-8m	8-9m	9-10m	10-11m	10-12m	10-12m	10-12m
Space between 2 lamps	20-25m	25-30m	30-35m	35-40m	35-40m	35-40m	35-40m
Warranty	3 years / 5 years						

QH Series | Exploded View



1 Solar Panel

2 Lamp Shell

3 LED Light Board + Optical Lens

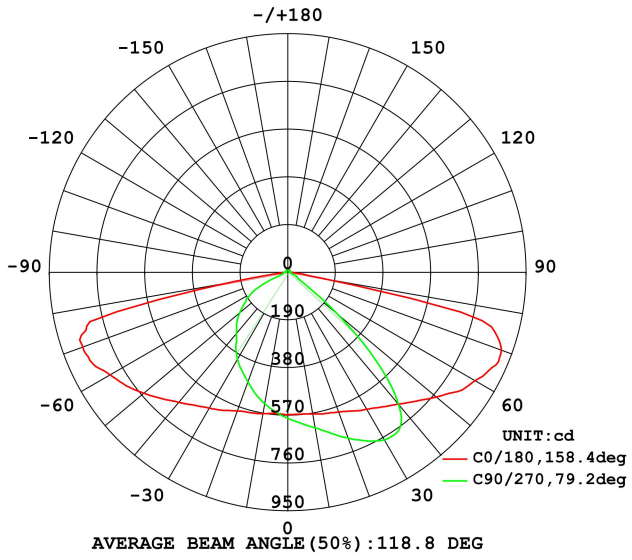
4 Controller

5 Battery Pack + Battery Box

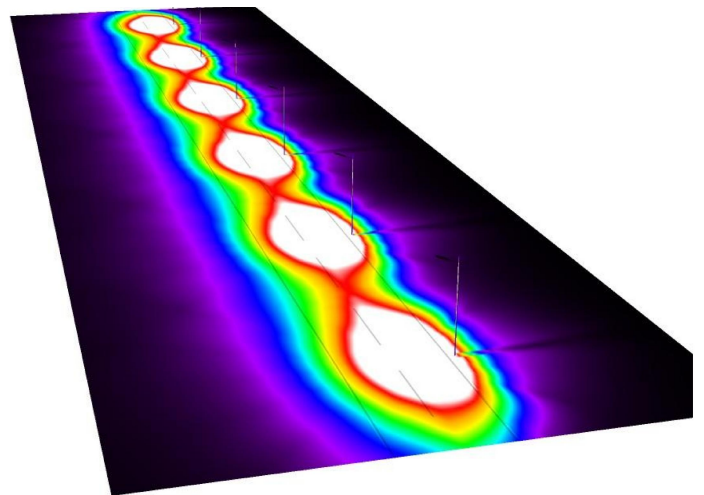
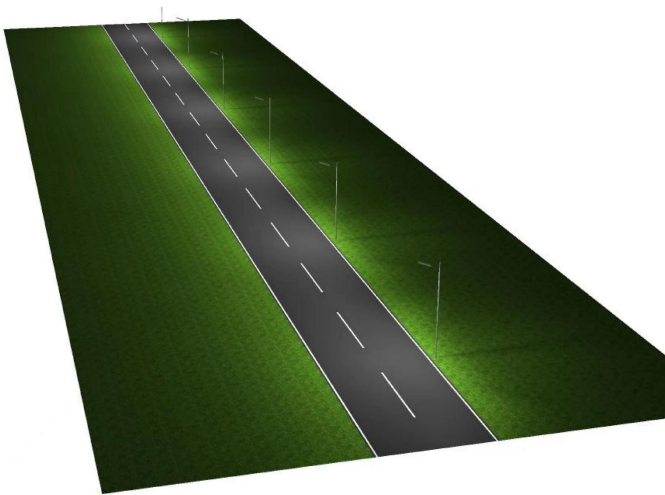
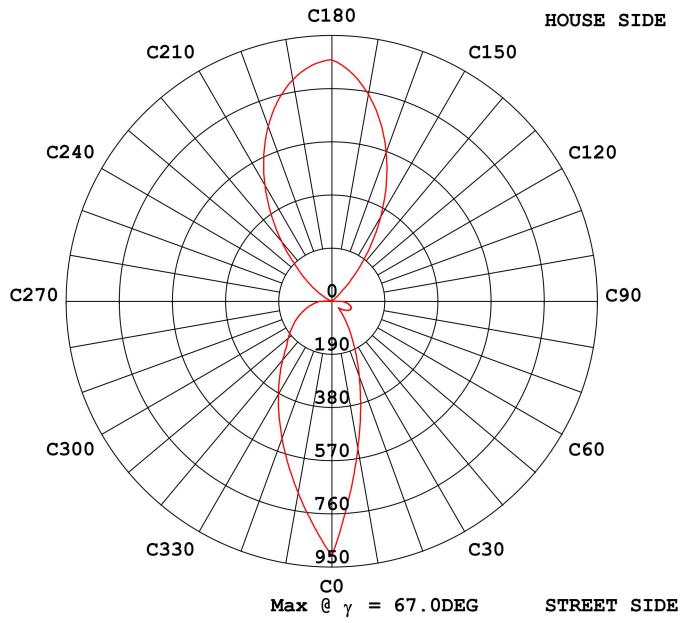
6 Fixed Bracket

QH Series | Light Distribution Curve

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM





190LM/W
high efficiency and
adjustable led



Sensor + Magnet switch
+ Indicators for all status



Fixed bracket



Pull-out battery box



High-strength
aluminum alloy frame



High-efficiency mono
solar cells: >21%

The Controller of QH series adopts extremely simplified design, integrated controller, microwave induction, and magnetic switch in one, which makes the operation simple, the maintenance simple, and the stability is higher.



1. Magnet Power Switch

Before mounted on the pole, take away magnet iron sheet.



2. Battery Power Indicators

The 4 blue LEDs in the upper row represent battery power, and 1 indicator led represents 25% power.

- 1 indicator on: 25% power
- 2 indicators on: 25%-50% power
- 3 indicators on: 50%-75% power
- 4 indicators on: 75%-100% power



3. Status Indicators LEDs

Solar Light Controller Status Indicator		
Indicator Light	Status	Indicator Light description
① Yellow (Motion sensor)	On	Movement Detected
	Off	Without Movement Detected
② Green (LED)	On	LED with output: Light on
	Off	LED without output: Light off
	Flicker	LED Short circuit
③ Blue (Battery)	On	Battery power enough for work
	Off	Battery Without output
	Flicker	Battery undervoltage
④ Red (Solar panel)	On	Battery charged to full power
	Off	Solar panel without output (at night)
	Flicker	Solar panel is charging the battery
⑤ Red & Green & Blue	Cycle light on in sequence	Battery cable plugged in backwards, poor battery connection contact, faulty battery, no battery connected

QH Series | Remote Control



Equipped with a 433 remote control, which uses a drone remote control solution. The remote control distance can reach 30 meters, which can directly penetrate obstacles. At the same time, it can control multiple lamps.

Four lighting modes are available. The mode can be selected according to the seasonal sun. The most suitable mode can be selected according to the seasonal sunshine.

User manual for remote controller:

Demo: No matter day or night, light "on" for 1 minute, only for test use.

Off: No matter day or night, light "OFF" .

L: At night, 12 hrs full power.

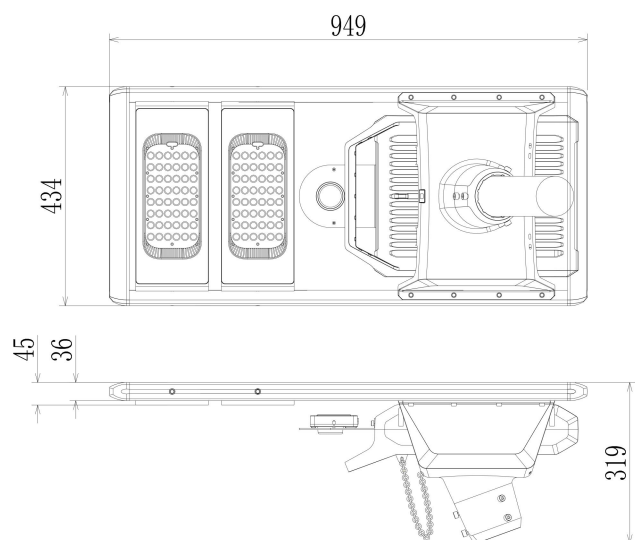
T: At night, 4 hrs full power + 8 hrs 25%.

M: At night, 12 hrs motion sensor control.

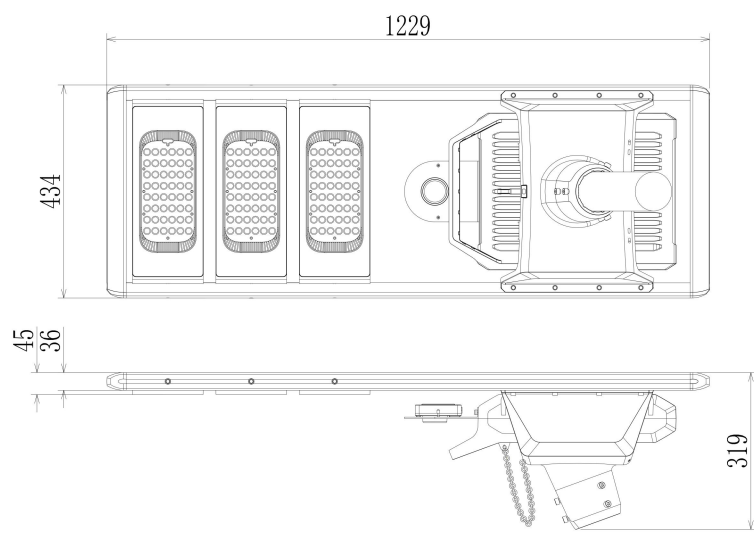
U: At night, 4 hrs full power + 8 hrs motion sensor control.



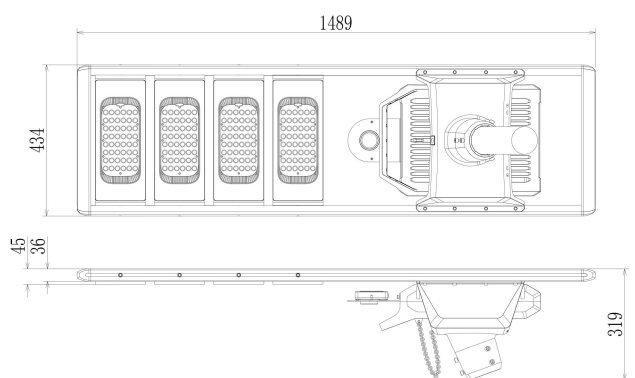
QH Series | Dimension Figure



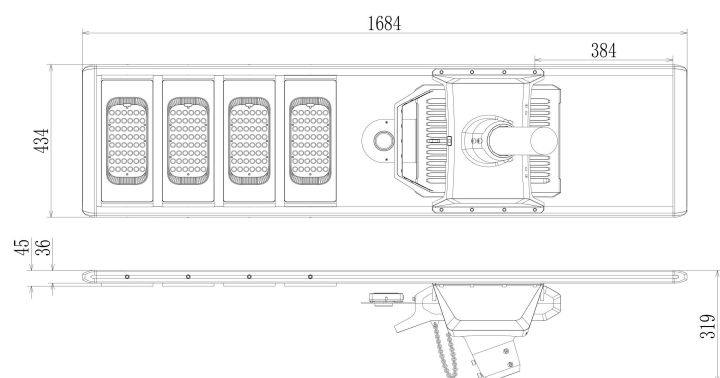
QH-60W



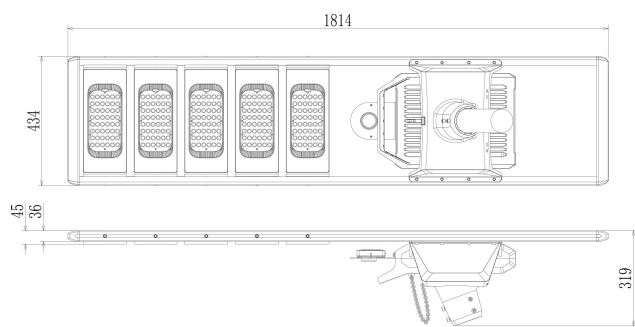
QH-80W



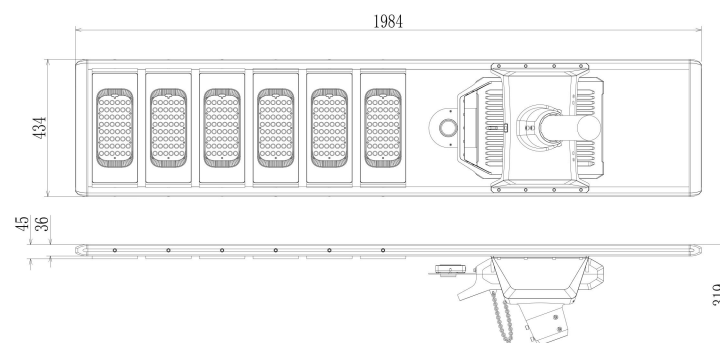
QH-100W



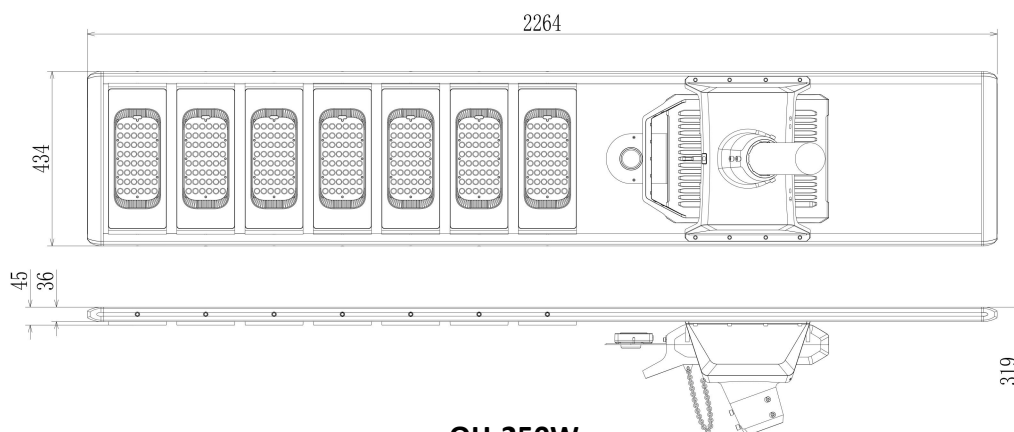
QH-120W



QH-150W



QH-200W



QH-250W

QH Series | Pull-out Battery Box

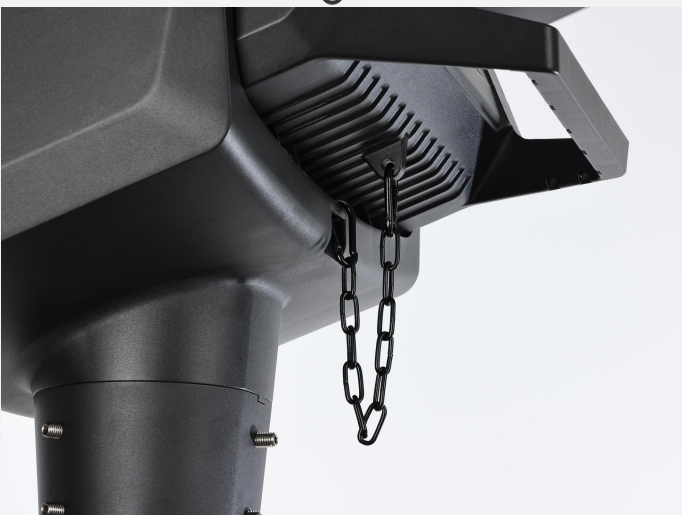
QH series adopts a new pull-out battery box design. There is no need to screw the battery box, and it can be installed by just pushing it, which greatly reduces the installation and maintenance costs.



Align the battery box with the card slot.



Place the battery box into the card slot.



Attach the other end of the anti-theft chain and connect the cable.

QH Series | Package

QH-60W/QH-80W/QH-100W/QH-120W/QH-150W/QH-200W/QH-250W Package
2 packages: 1pc lamp per carton + 1pc battery pack per carton



QH Series | Installation Instruction

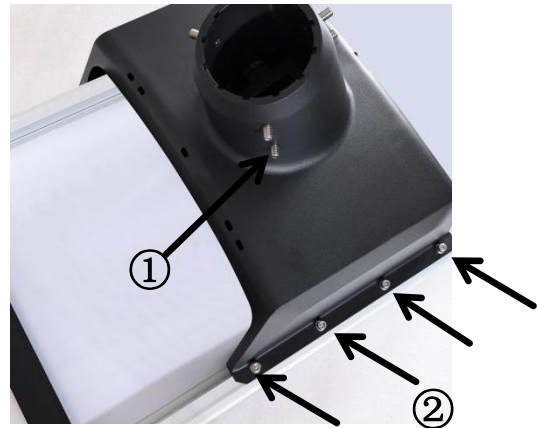
1. Installing the controller

- ① Secure the aluminum plate to the top of the battery box using two M6×10 screws.
- ② Secure the controller to the aluminum plate using two M3×16 screws.



2. Installing the bracket

- ① Secure the bracket to the small sleeve using six M8x20 screws.
- ② Secure the bracket to the lamp body using eight M6x16 screws.



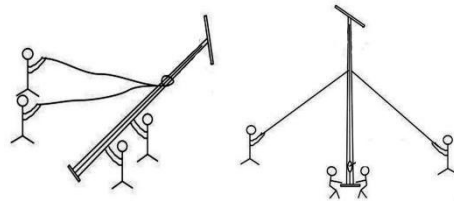
3. Secure the lamp body

Secure the entire lamp body to the lamp pole using six M8x25 screws.



4. Install the lamp pole

Dig a hole according to the lamp pole dimensions, insert the lamp pole into the hole, and secure it with concrete.



5. Secure the battery box

- ① Hold the bottom of the battery box with your left hand and grip the handle with your right hand, then gently push the battery box into the bracket.
- ② Secure one end of the anti-theft chain to the battery box and the other end to the bracket.



6. Wiring

- ① Connect the ① wire from the controller to the LED wire.
- ② Connect the ② wire from the controller to the battery wire.
- ③ Connect the ③ wire from the controller to the solar panel wire.





CITY ROAD



STREET



SQUARE



PARK



RURAL ROAD




PARKING LOTS



SCHOOL



GARDEN



REMOTE AREA

Widely used in branch roads, streets, and factory roads, parks, villages, mountainous and remote areas, lighting projects, courtyards, schools, squares and other places that require outdoor lighting, helping domestic traditional lighting to upgrade to LED green new energy lighting Replace.

QH Series | Applications



A long, straight asphalt road stretches into the distance, flanked by tall, modern streetlights. The road is set in a vast desert landscape with rolling sand dunes under a bright, clear blue sky. The sun is high in the sky, creating a strong lens flare effect. The overall scene is bright and open, suggesting a journey or a path forward.

Thank You Very Much