

# ALL IN ONE

## Solar Street Light

### SPECIFICATION

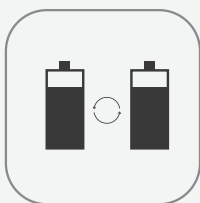
### LRC-H (30W-120W)



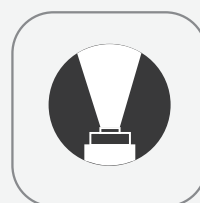
Efficient  
Solar Module



Smart Control  
System



High Performance  
Li-Battery



Up to date  
LED



Professional  
Optical Design



Integrated  
Design



Strong Structural  
Design



Auto-Control  
PIR/Timer



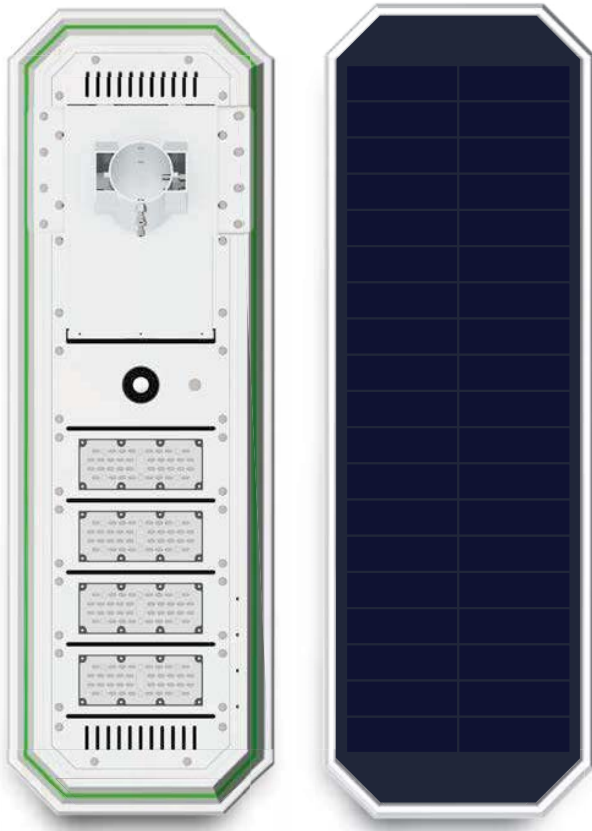
Easy  
Maintenance



IP65



# PRODUCT OVERVIEW



- ◆ Up-to-day LED Technology with LED Modular Thermal Design
- ◆ Smart Battery Protection System, More stable quality and longer lifespan
- ◆ Modular Design, Battery can be drawn out easily

Green

Red

Blue

Orange



Unique fluorescent decoration design (Color optional)

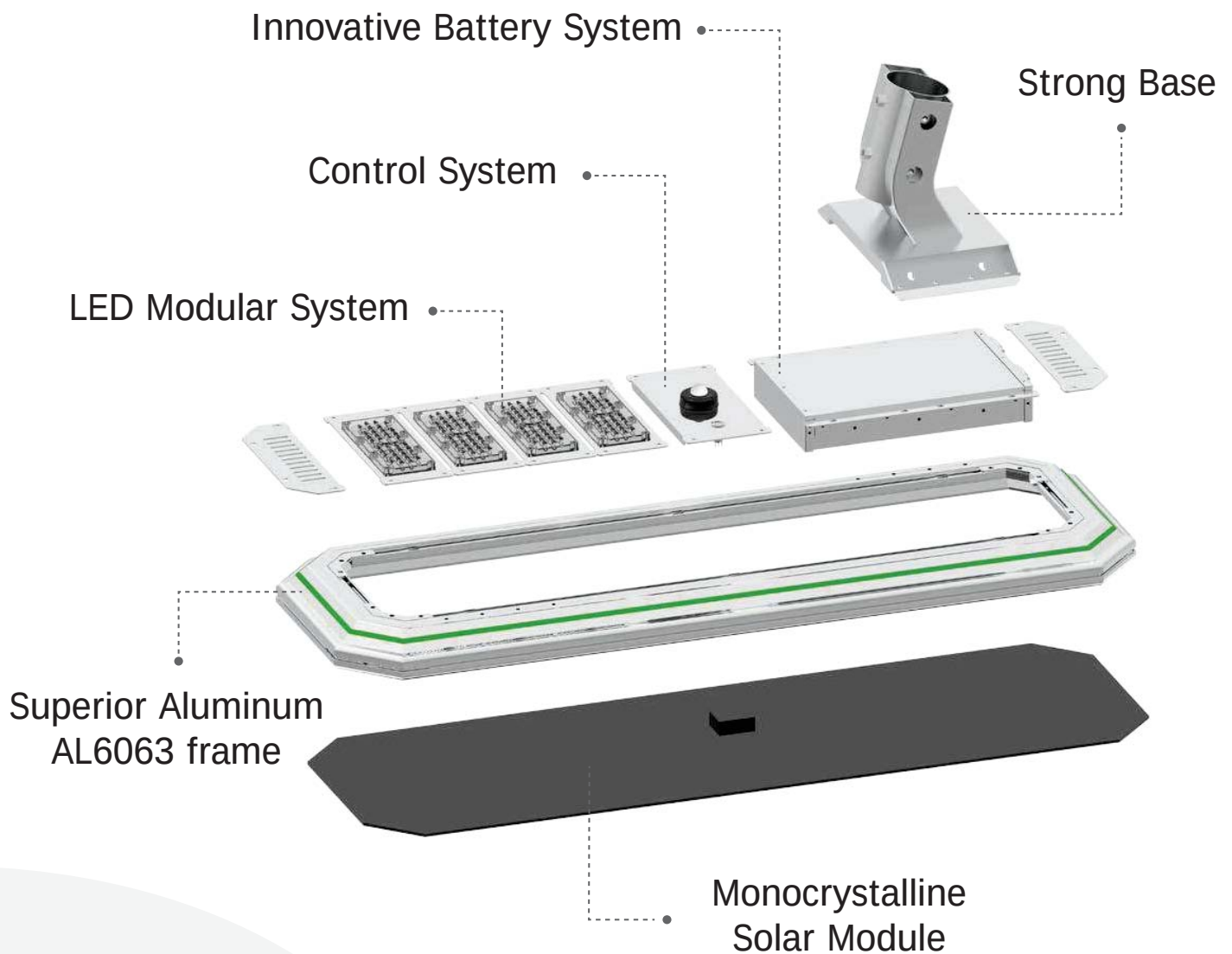


# PRODUCT STRUCTURE DIAGRAM

Simple installation, easy maintenance. Each part is imaginative,

All materials are carefully selected.

Protected against all weathers.





# TECHNICAL DATA (LRC-H Seires)

| Model                                              | LRC-H30W                | LRC-H40W                | LRC-H60W                 | LRC-H80W                 | LRC-H100W                | LRC-H120W                 |
|----------------------------------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
|                                                    | Physical Parameter      |                         |                          |                          |                          |                           |
| LED Brand                                          | PHILIPS                 | PHILIPS                 | PHILIPS                  | PHILIPS                  | PHILIPS                  | PHILIPS                   |
| LED Qty(pcs)                                       | 72                      | 108                     | 144                      | 256                      | 256                      | 384                       |
| Power of PV Module(W)                              | 18V 60W                 | 18V 70W                 | 18V 90W                  | 18V 110W                 | 36V 120W                 | 36V 160W                  |
| LiFePO4<br>Battery Capacity                        | 12.8V 307.2Wh           | 12.8V 384Wh             | 12.8V 460.8Wh            | 12.8V 537.6Wh            | 25.6V 768Wh              | 25.6Ah 921.6Wh            |
| Light Mode                                         | PIR/Time Control        | PIR/Time Control        | PIR/Time Control         | Time Control             | Time Control             | Time Control              |
| Product Dimension(mm)                              | 753*373*60              | 893*373*60              | 1123*373*60              | 1173*423*60              | 1413*423*60              | 1713*423*60               |
| Product N.W.(kg)                                   | 12                      | 14                      | 17                       | 22                       | 24                       | 32.8                      |
| Package #1<br>Dimension(mm)& G.W.<br>(2 Lamps/CTN) | 820*260*460<br>(20.7KG) | 960*260*460<br>(24.2KG) | 1190*260*460<br>(29.5KG) | 1240*260*510<br>(37.5KG) | 1480*330*510<br>(46.1KG) | 1780*330*510<br>(50.85KG) |
| Package #2<br>Dimension(mm)& G.W.<br>(2 Bases/CTN) | 380*380*190<br>(7KG)    | 380*380*190<br>(7KG)    | 380*380*320<br>(10.93KG) | 430*380*320<br>(10.93KG) | 510*430*450<br>(20.85KG) | 510*430*450<br>(20.85KG)  |
|                                                    | Light Parameter         |                         |                          |                          |                          |                           |
| Light Power(W)                                     | 30W                     | 40W                     | 60W                      | 80W                      | 100W                     | 120W                      |
| Tyical Liminous<br>Flux(Lm)                        | 5400                    | 7200                    | 10800                    | 14400                    | 18000                    | 21600                     |
| LED Light Effect(Lm/W)                             | 200Lm/W                 |                         |                          |                          |                          |                           |
| Color Temperature(K)                               | 2700-6500               |                         |                          |                          |                          |                           |
| Beam Angle(°)                                      | 150°x 80°               |                         |                          |                          |                          |                           |
| Rainy Days(D)                                      | 3~5                     |                         |                          |                          |                          |                           |
|                                                    | Environment Parameter   |                         |                          |                          |                          |                           |
| Charging<br>Temperaure(°C)                         | 0℃~ +60℃                |                         |                          |                          |                          |                           |
| Discharging<br>Temperature(°C)                     | -20℃ to +60℃            |                         |                          |                          |                          |                           |
| Storage<br>Temperature(°C)                         | -20℃ to +45℃            |                         |                          |                          |                          |                           |
|                                                    | Installations           |                         |                          |                          |                          |                           |
| Dia. of Top Pole (mm)                              | 50~60                   | 50~60                   | 70~80                    | 70~80                    | 90~100                   | 90~100                    |
| Installation Height(m)                             | 4~6                     | 5~7                     | 6~8                      | 8~10                     | 9~11                     | 10~12                     |
| Installation<br>Distance (m)                       | 15~25                   | 20~30                   | 25~35                    | 30~40                    | 35~45                    | 40~50                     |



# CORE TECHNOLOGY - Solar Panel



A grade Cell



Stable



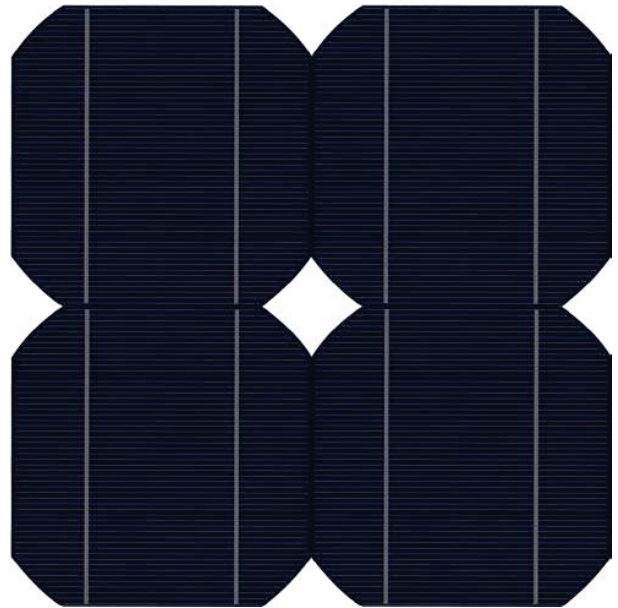
ECO Green



High Rate



25 years Lifespan



## Monocrystalline Solar Panels

Adopts high quality semiconductor Solar cells;

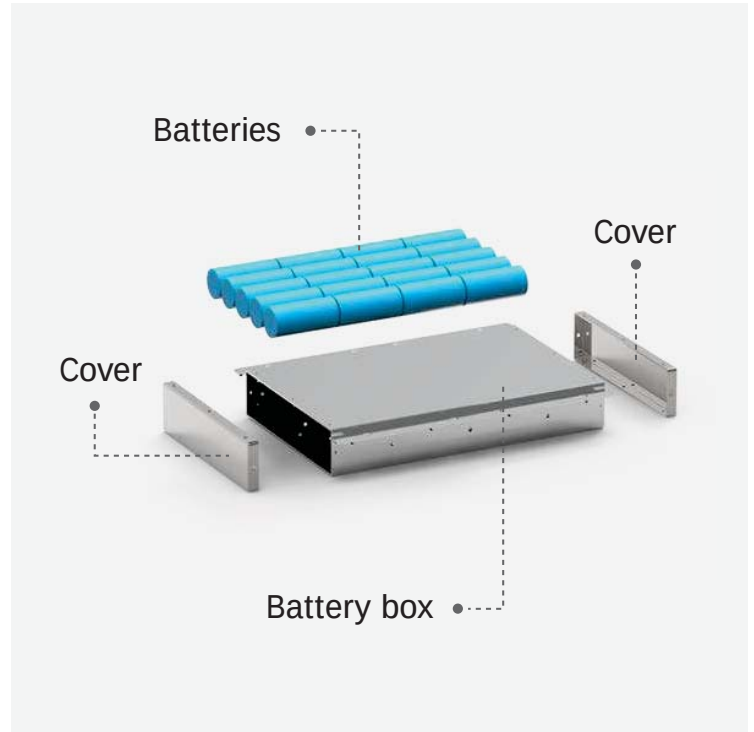
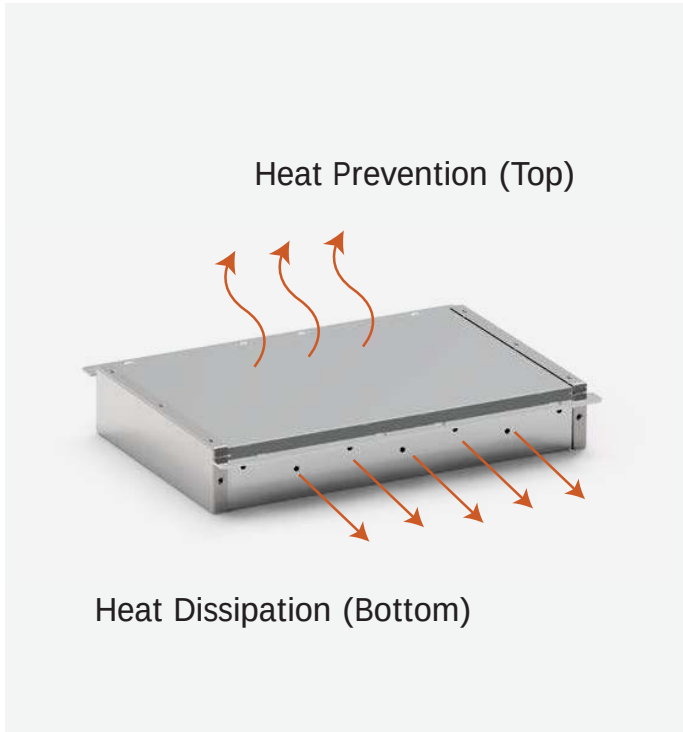
Weak light power generation is good

Independent production of solar panels, comprehensive quality control;

High conversion efficiency up to 23%



# CORE TECHNOLOGY - Battery



## Integrated Battery Protection System

Military grade LiFePO4 Battery, High Safety and stability

Long lifespan, More than 1500 Battery light cycles

Secure metal structure around battery

Overcharge and over discharge protection



# CORE TECHNOLOGY - LED Lights



## Super Bright LEDs

Up to date Super Bright LEDs, Lighting effect up to 200Lm/W

Drive by low current, more energy efficient, Lighting efficiency increased by 40%



Ultra-low light decay, lifespan up to 80,000 hours

## COLOR PHOTOGRAPHY



4000K



5000K

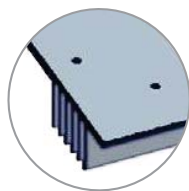
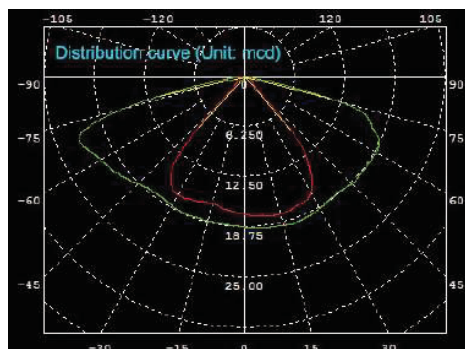


6000K

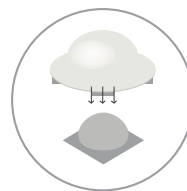


# CORE TECHNOLOGY - LED Lights

## Bat Wing light distribution curve



Innovative heat sink



Rectangular beam design



IP67 PG head

## LED Modular System Design

Rectangular bat wing light distribution for road lighting Optimized light distribution for a more uniform and wider lighting area

Integrated optical lens design, Light transmittance up to 93%

Customized heat sink, better heat dissipation and waterproof ability



# CORE TECHNOLOGY - Controller



## LED Modular System Design

Real constant current control, reduce LED light attenuation and extend the lifespan

Protecting the battery when charging in high or low temperature

Charging efficiency is 92%, LED driving efficiency above 95%

Intelligent energy management, adjust the power output and extend the light hours according to the battery capacity

Light control: Turn on at night and turn off in the daytime for charging

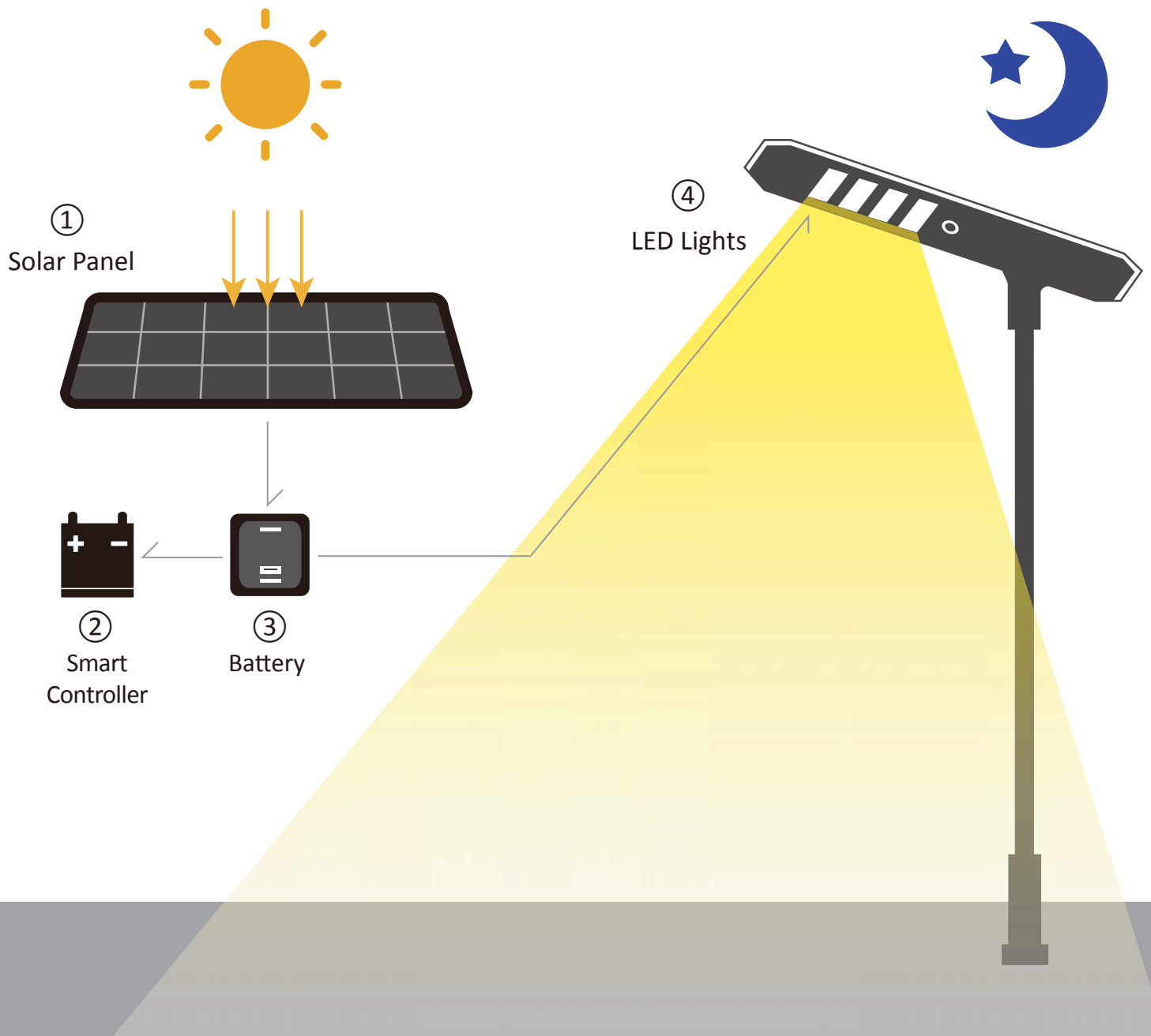


# CORE TECHNOLOGY - Controller

## - LIGHT DIAGRAM -

DAY

NIGHT





# LIGHT MODE - PIR Sensor



**100 %** Brightness

When the motion detected, the lamp will shift to 100% brightness automatically



**30 %** Brightness

The lamp stay on with 30% brightness when no motion



# INSTALLATION (LRC-H Seires)

30W / 40W / 60W / 80W / 100W / 120W

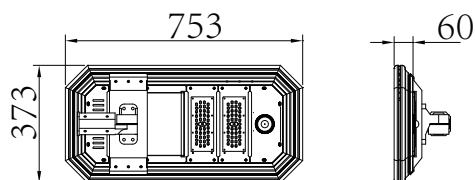
(Height:M)





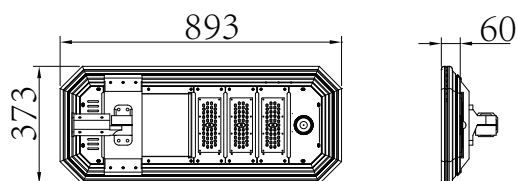
# PRODUCT SIZE (LRC-H Seires)

30W

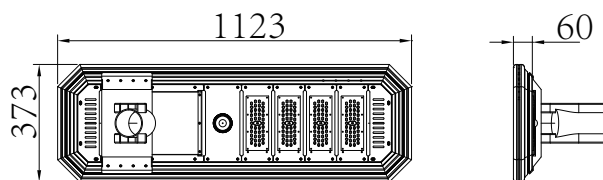


Unit:mm

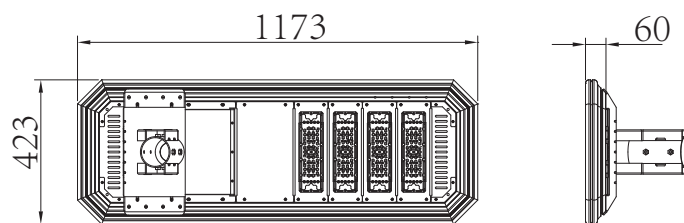
40W



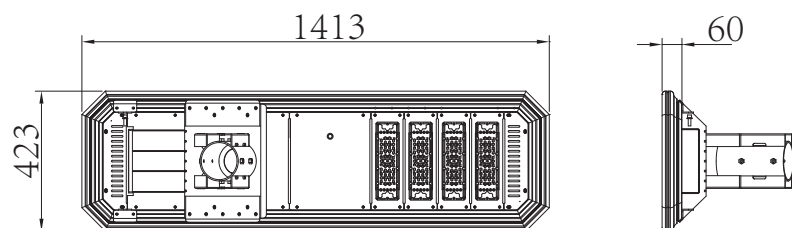
60W



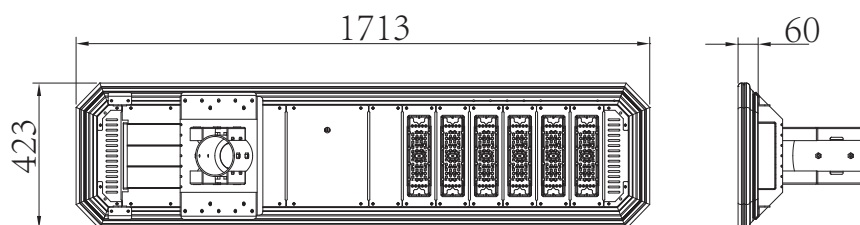
80W



100W



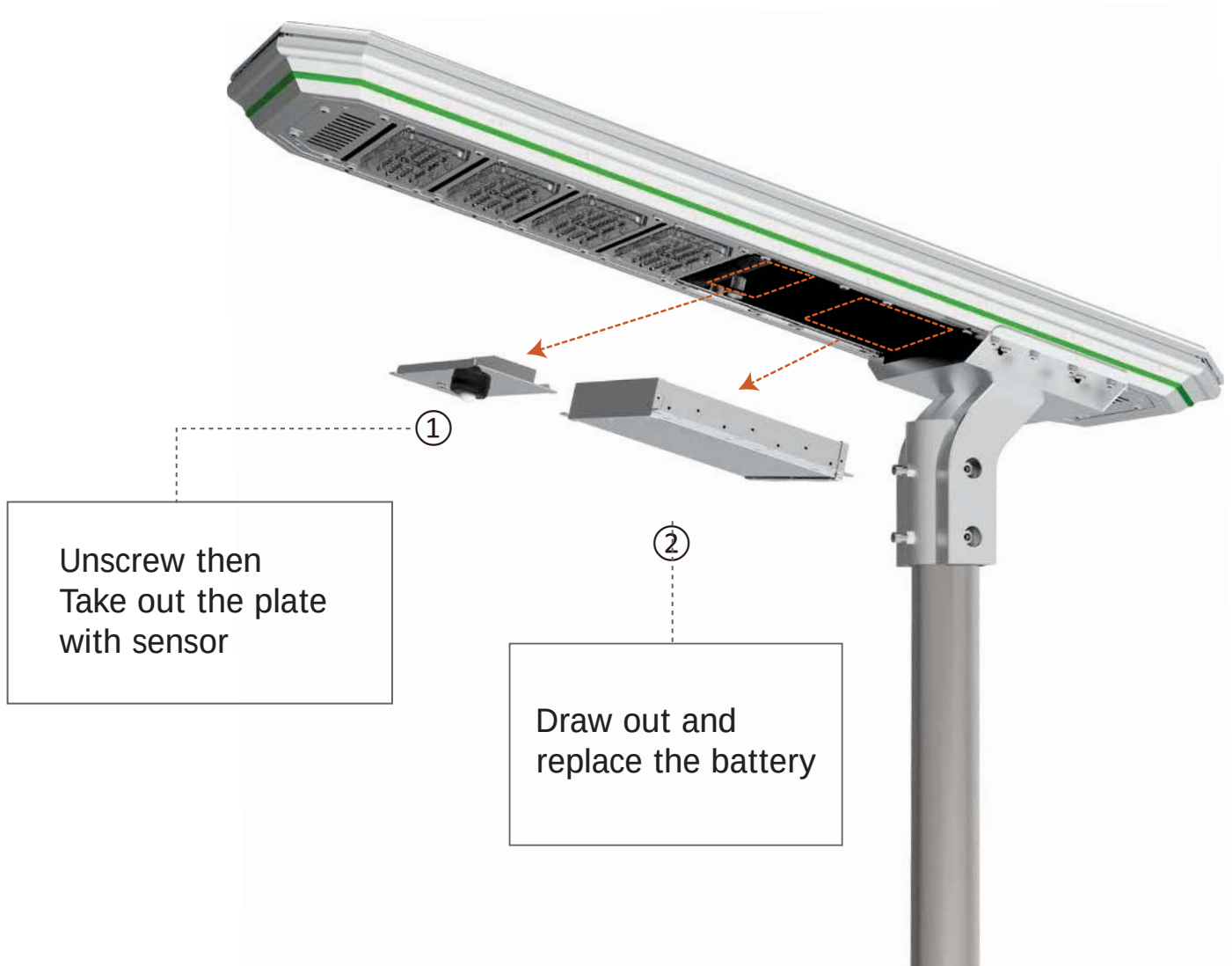
120W





# STRUCTURE DESIGN

Easy Maintenance



APPLICATION

2020





# STRUCTURE DESIGN



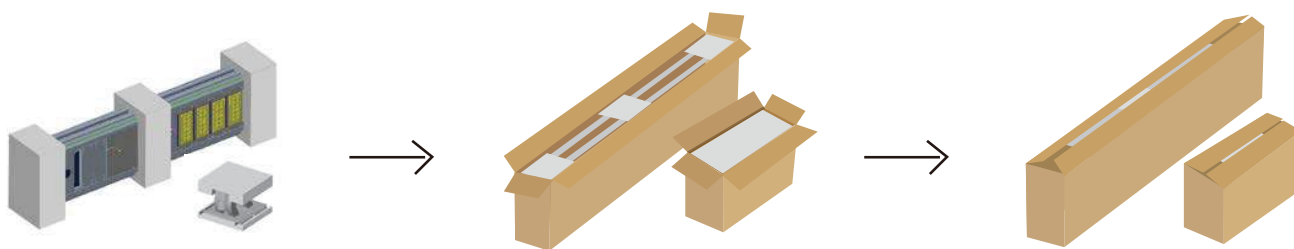
## Strong Base

More secure and safe, Anti-Typhoon/Hurricane  
Anti-rust treatment, can be used in harsh environments  
such as Islands, Coasts.

2020



# PACKING DETAILS



| Model     | Carton details<br>(2 cartons) | Packaging size<br>(mm) | G.W<br>(kg) | 20" GP<br>(set) | 40" GP<br>(set) | 40" HQ<br>(set) |
|-----------|-------------------------------|------------------------|-------------|-----------------|-----------------|-----------------|
| LRC-H30W  | CTN#1: 2 Lamps/CTN            | 820*260*460            | 20          | 370             | 820             | 1000            |
|           | CTN#2: 2 Sets of Parts/CTN    | 380*380*190            | 7.5         |                 |                 |                 |
| LRC-H40W  | CTN#1: 2 Lamps/CTN            | 960*260*460            | 24.2        | 320             | 730             | 900             |
|           | CTN#2: 2 Sets of Parts/CTN    | 380*380*190            | 7.5         |                 |                 |                 |
| LRC-H60W  | CTN#1: 2 Lamps/CTN            | 1190*260*460           | 29.5        | 240             | 530             | 650             |
|           | CTN#2: 2 Sets of Parts/CTN    | 380*380*320            | 10.93       |                 |                 |                 |
| LRC-H80W  | CTN#1: 2 Lamps/CTN            | 1240*260*510           | 37.5        | 200             | 450             | 550             |
|           | CTN#2: 2 Sets of Parts/CTN    | 430*380*320            | 10.93       |                 |                 |                 |
| LRC-H100W | CTN#1: 2 Lamps/CTN            | 1480*330*510           | 46.1        | 120             | 290             | 350             |
|           | CTN#2: 2 Sets of Parts/CTN    | 510*430*450            | 20.85       |                 |                 |                 |
| LRC-H120W | CTN#1: 2 Lamps/CTN            | 1780*330*510           | 50.85       | 110             | 250             | 310             |
|           | CTN#2: 2 Sets of Parts/CTN    | 510*430*450            | 20.85       |                 |                 |                 |

להזמנות ופרטים נוספים ניתן לפנות לחברת דרכי האור :

POB 98, Ma'ale Adumim, ISRAEL 9810002

Mobile: 972-50-2500565 | Tel: 972-2-6730822 | Fax: 972-2-6730892

elikom565@gmail.com