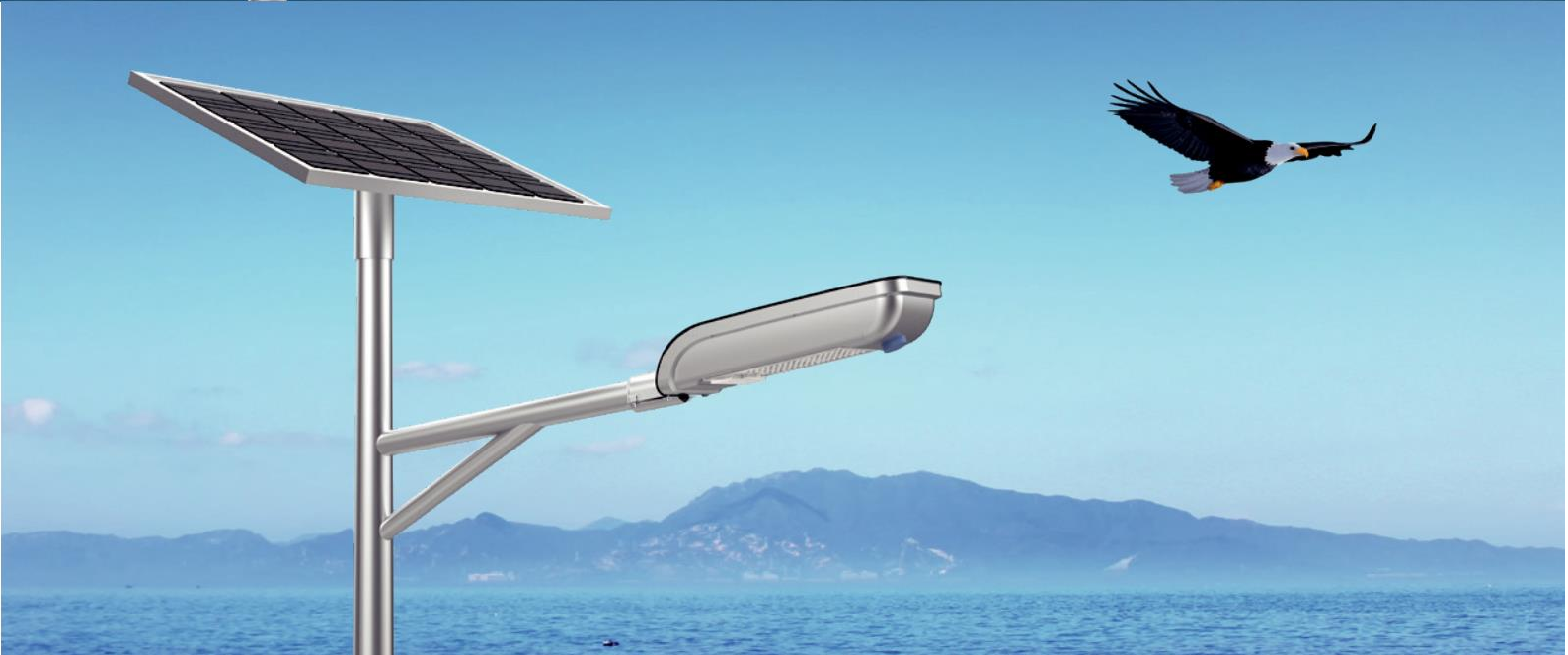
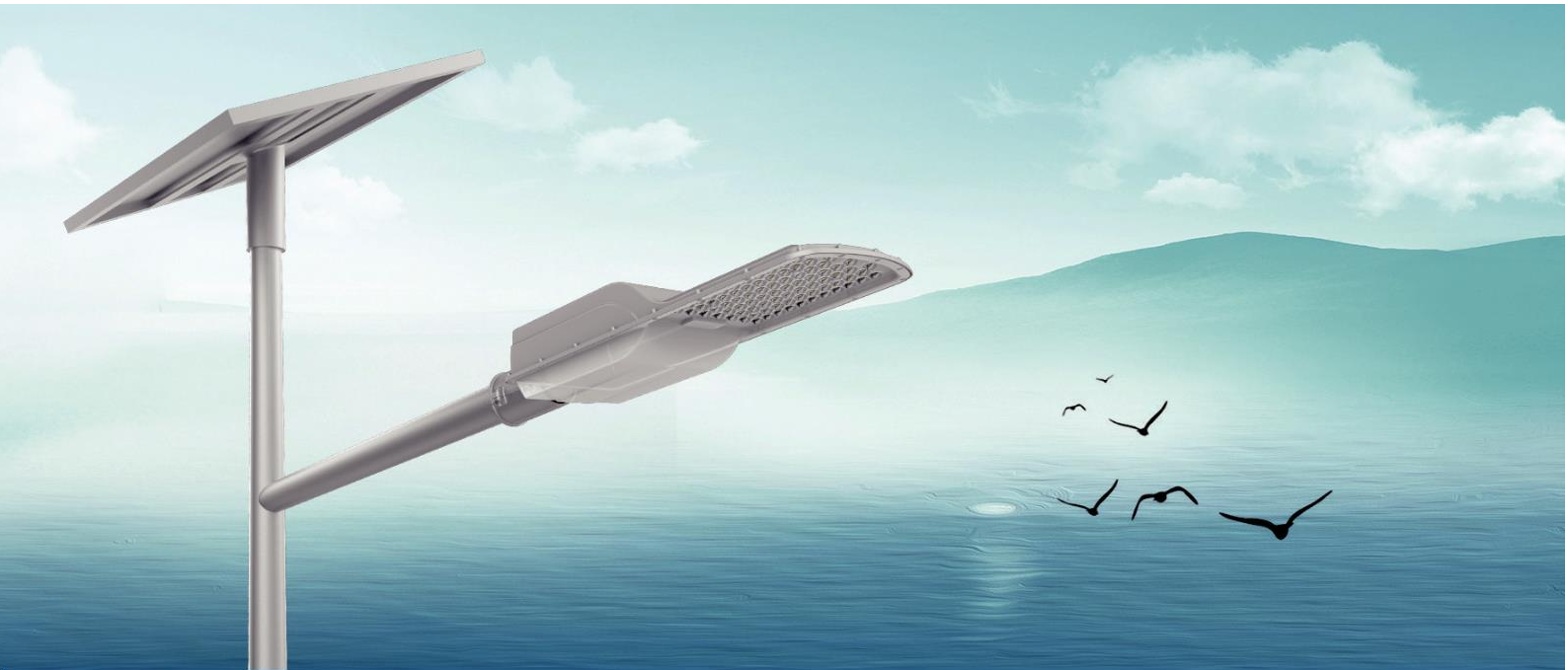




When the nature lightens our future



thunderlight Y Series

Solar Powered LED Lighting

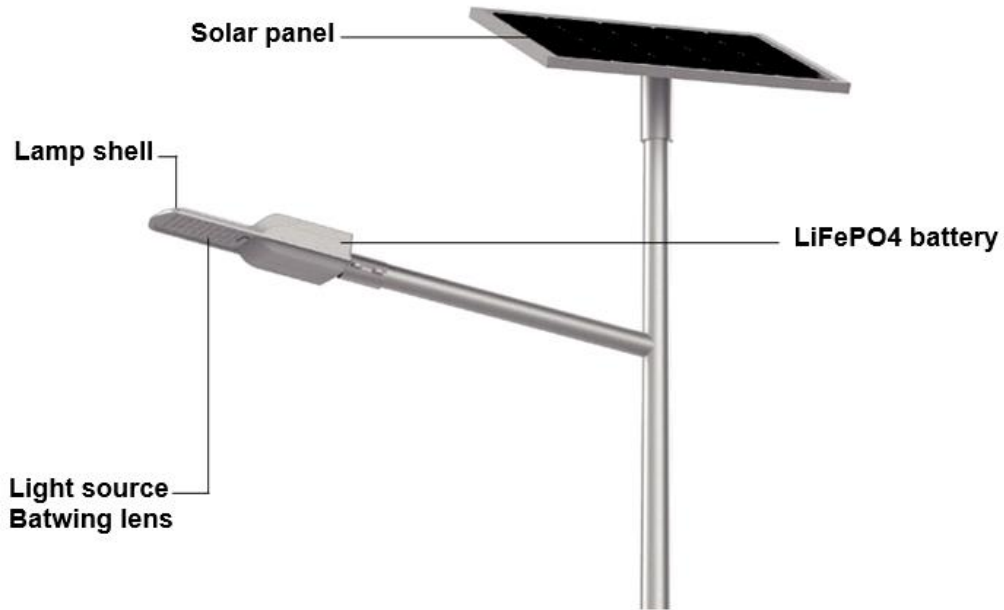
2021

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1. Unique Structure Design

All in two structure is easy to transport, install and maintain.



YY-60, YY-80, YY-100, YY-120



YP-120, YP-150, YP-200



2. Core Technologies



Light Efficiency Management

Multiple led chip work simultaneously, the who system light efficiency has been improved to 160lm/w



Charge and Discharge Management

Protect battery by software and hardware, more than 2000 time's cycles.



Battery Program Updated

Embedded single string control technology. More stable and longer lifespan.



Innovative-wing Lens

Lighting area much wider, the maximum of using the lighting all light the road.



Intelligent power control

Judge recent climate plan the reasonable discharge power.

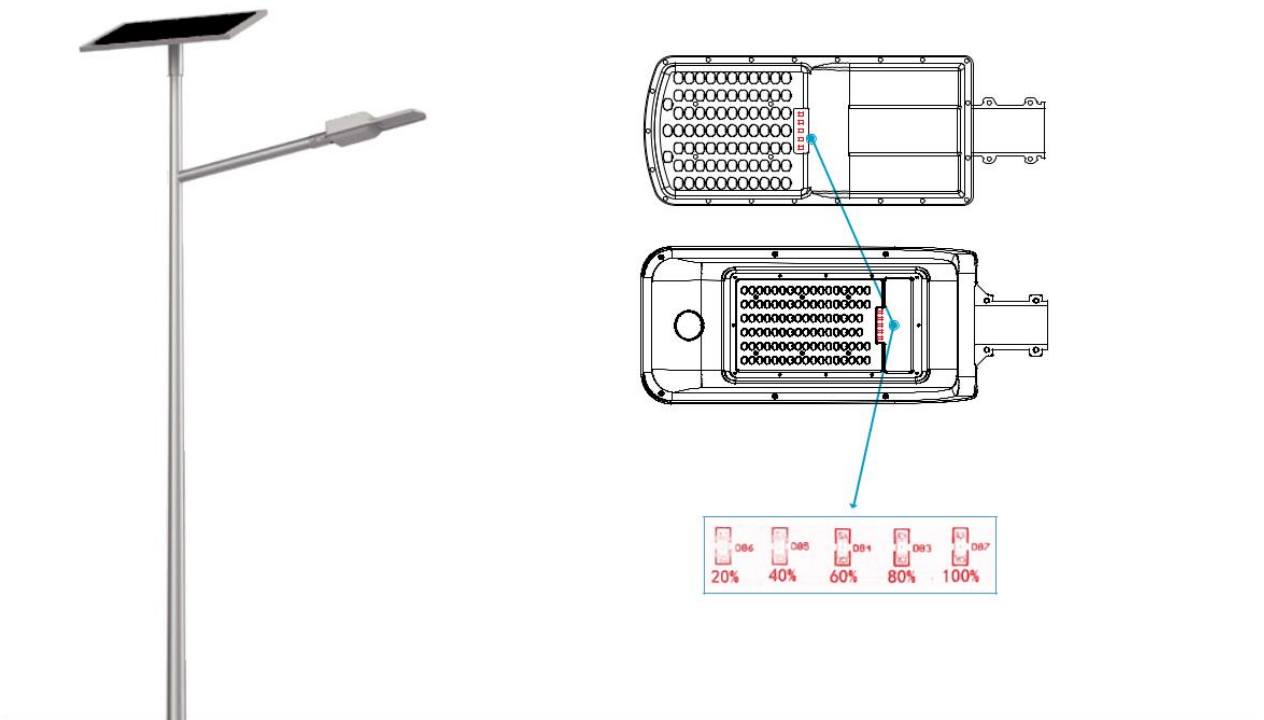


Battery Power indicator

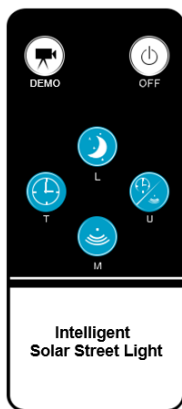
To check lamp's charge and discharge conveniently.







3. Battery Instructions

Indicator light status instructions



❖ Six 6 working modes

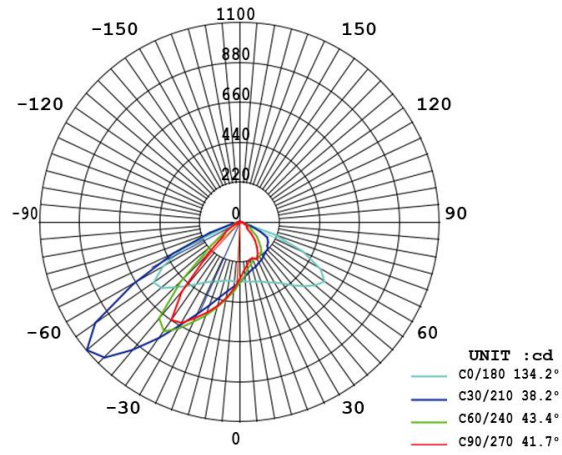


-  **DEMO:** No matter day or night, light "on" for 1 minute. Only for test use.
-  **OFF:** Light "off", no matter day or night.
-  **L:** At night, 100%-2hrs, 60%-3hrs, 20%-dawn.
-  **T:** At night, 100%-1hr, 70%-4hrs, 30%-dawn.
-  **M:** At night, 100%-1hrs, 40%-3hrs, 10%-dawn.
-  **U:** 100%-2hrs, 70%-4hrs, 20%-2hrs.

Note: Default is **L mode**, once a certain mode was set successfully, it will be reserved until you change other modes with remote control.

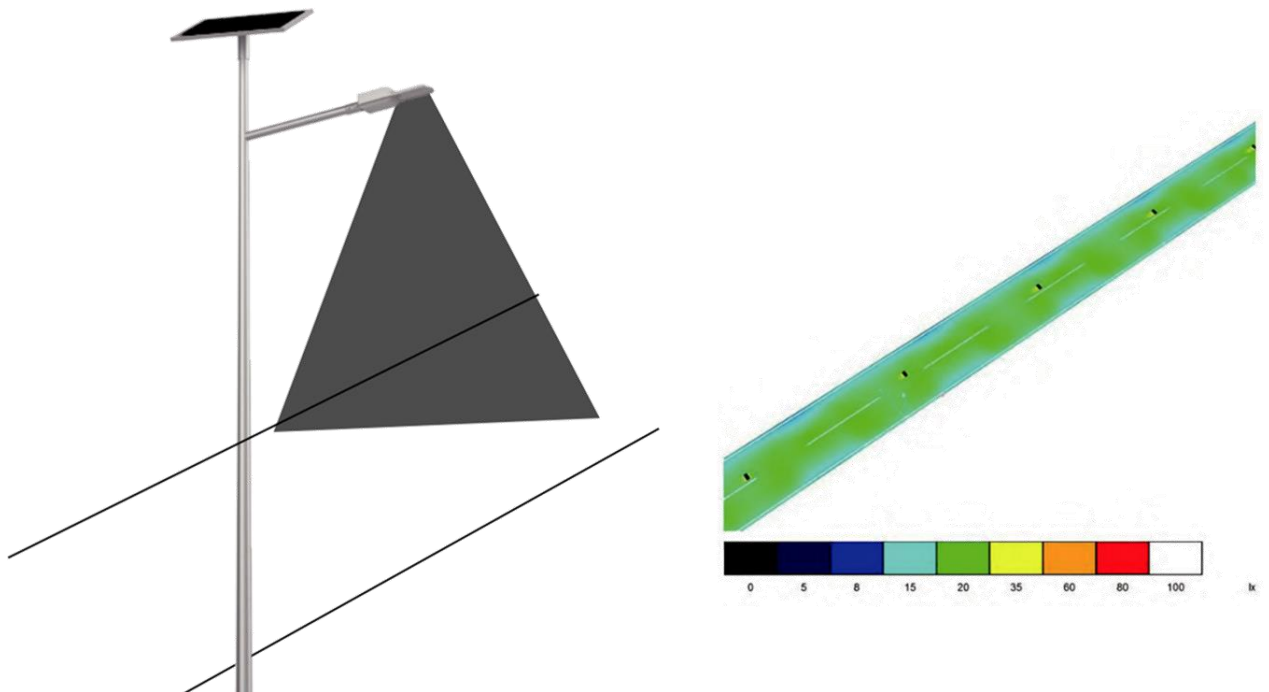
4. Light Distribution

Luminous intensity distribution curves



Beam Angle: X-axis: 160° Y-axis: 80°

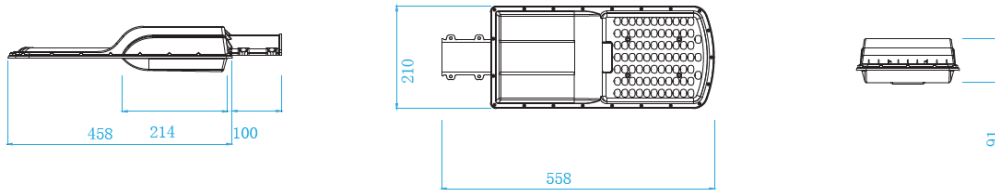
Wing lens with polarized light



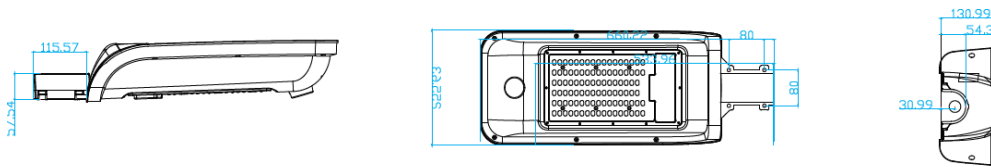
Solar LED Street Light Specification | Datasheet Sheet

5. Dimension

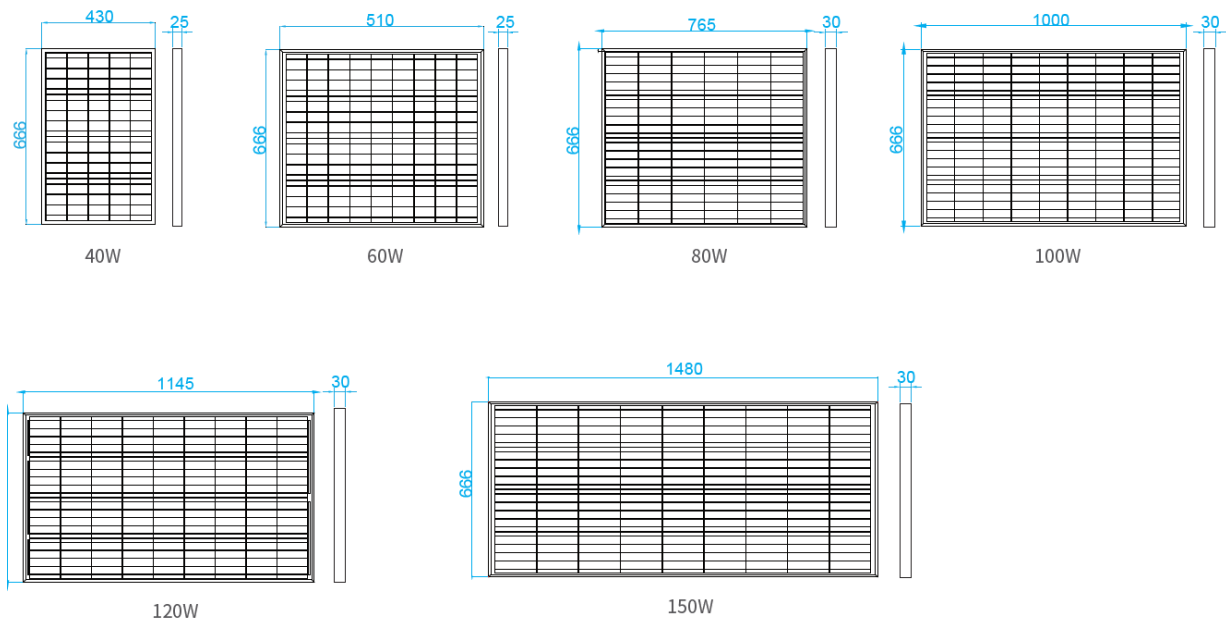
YY-60, YY-80, YY-100, YY-120



YP-120, YP-150, YP-200



Solar Panels



6. Packing Information

| Type | | packing way | Box size(L*W*H) | Gross Weight |
|------------------|------------|---------------------|-------------------|--------------|
| | | 1pc/ctn or 2pcs/ctn | inner carton size | Gross Weight |
| YY Series | | | | |
| YY-60 | Lamp body | 1pc/ctn | 600*255*115mm | 3.44kg |
| | 40w Panel | 2pcs/ctn | 740*505*108mm | 13kg |
| YY-80 | Lamp body | 1pc/ctn | 600*255*115mm | 4kg |
| | 60W Panel | 2pcs/ctn | 725X570X108MM | 15kg |
| YY-100 | Lamp body | 1pc/ctn | 600*255*115mm | 6.28kg |
| | 80W Panel | 2pcs/ctn | 845*745*90mm | 20kg |
| YY-120 | Lamp body | 1pc/ctn | 600*255*115mm | 6.28kg |
| | 100W Panel | 2pcs/ctn | 1090*755*90mm | 24kg |
| YP Series | | | | |
| YP-120 | Lamp body | 1pc/ctn | 710*310*185MM | 7.898kg |
| | 120W Panel | 1pc/ctn | 1205*755*65MM | 14kg |
| YP-150 | Lamp body | 1pc/ctn | 710*310*185MM | 8.738kg |
| | 150W Panel | 1pc/ctn | 1555x740x78MM | 15kg |
| YP-200 | Lamp body | 1pc/ctn | 710*310*185MM | 9.298kg |
| | 200W Panel | 1pc/ctn | 1090*755*90mm | 24kg |

7. Technical Parameters

Solar LED Street Light Specification | Datasheet Sheet

| | Type | YY-60 | YY-80 | YY-100 | YY-120 | YP-120 | YP-150 | YP-200 | |
|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Panel | Power | 40W/5V | 60W/6V | 80W/6V | 100W/6V | 120W/18V | 150W/18V | 200W/18V | |
| | Material | Poly crystalline silicon | Poly crystalline silicon | Poly crystalline silicon | Poly crystalline silicon | Mono crystalline silicon | Mono crystalline silicon | Mono crystalline silicon | |
| | Solar cell efficiency | 17-18% | 17-18% | 17-18% | 17-18% | 19-20% | 19-20% | 19-20% | |
| Lithium battery | Capacity | 144WH | 192WH | 320WH | 384WH | 576WH | 691WH | 768WH | |
| | Charge cycle times | 2000 times | 2000 times | 2000 times | 2000 times | 2000 times | 2000 times | 2000 times | |
| Lamp head | Luminous flux | 2500lm | 3400lm | 4800lm | 6400lm | 9600lm | 11200lm | 12800lm | |
| | Light output | 15W | 20W | 30W | 40W | 60W | 70W | 80W | |
| | LED qty | 80pcs | 80pcs | 80pcs | 80pcs | 100pcs | 100pcs | 100pcs | |
| | LED chip | Bridgelux | | | | | | | |
| | Color temperature | 6000-6500K | | | | | | | |
| | CRI | ≥70Ra | | | | | | | |
| | Material of lamp head | Die-cast aluminum | | | | | | | |
| Lifespan | 50000hrs | | | | | | | | |
| System | Light distribution | Batwing lens with polarized light | | | | | | | |
| | Beam angle | X-axis: 160° Y-axis: 80° | | | | | | | |
| | Lighting time(full charged) | 5-7 rainy days | | | | | | | |
| | Operation temperature | -20 C ~60 C | | | | | | | |
| Pole | Top diameter | 60mm | | | | | | | |
| | Height | 5-7m | | | 7-12m | | | | |
| | Installation spacing | 20-30m | | | 30-40m | | | | |

8. Application

