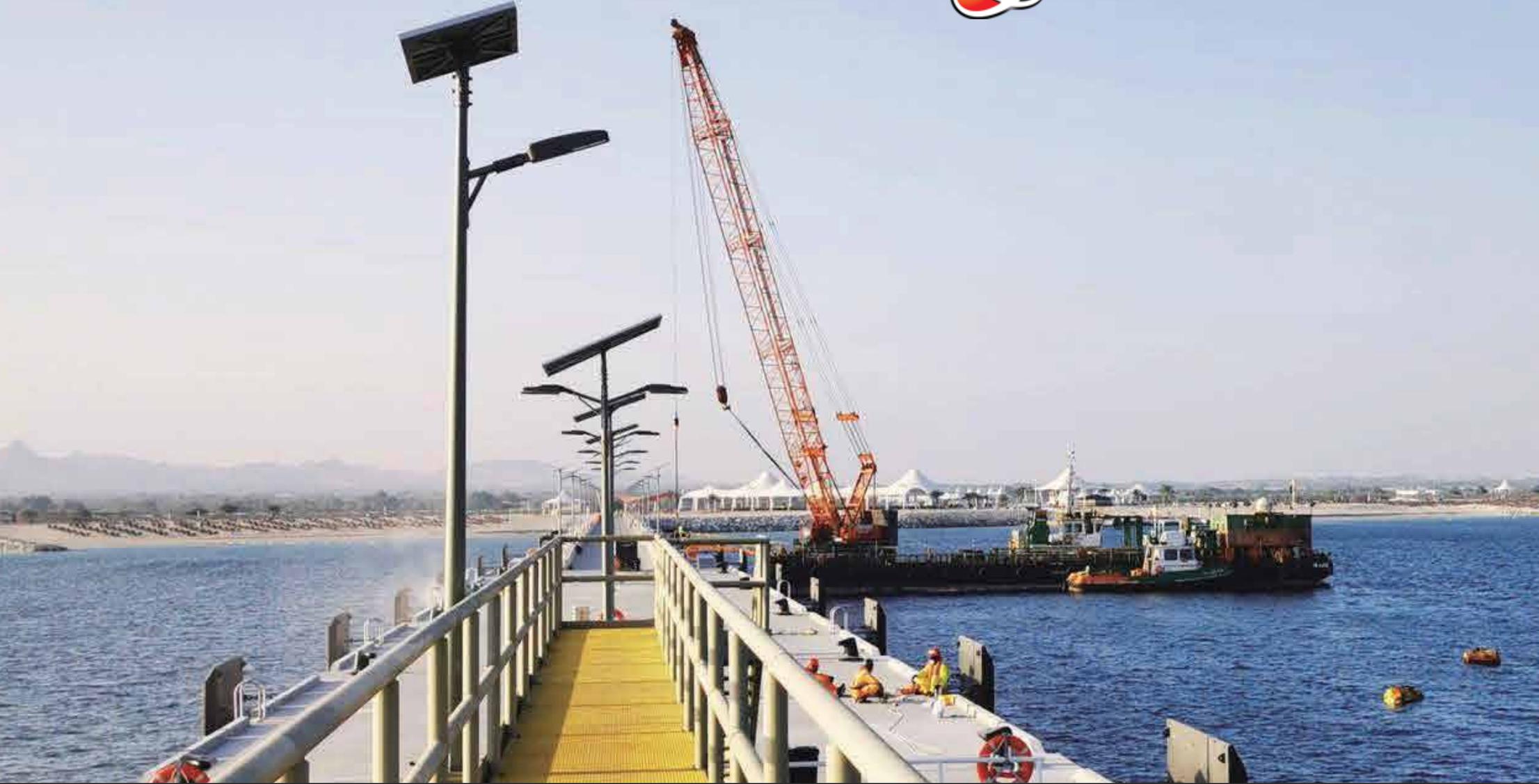




**FANTASY LIGHTS GROUP®**



LiFePO4  
Battery



Intelligent  
Control



High brightness  
LED



Biodiversity  
Protection



IP65  
Waterproof



Designed  
Aesthetically



Remote  
Control



Hybrid function  
(Solar & Grid)

AIT Solar  
LED Street Light

**HELIOS**



## HELIOS | AIT Solar LED Street Light

HELIOS solar led street light , as the glory pioneer of AIT series ( means battery and controller built in of luminaire) high power solar led street lights in the world since 2016, it is designed to simplify the complication of regular splitted solar street light and enstrength and expand the flexibility of all in one solar street light.HELIOS is the most sucessful solar street light since 2016, more than 150,000pcs have been supplied to many countries or regions bring the easy-accessable lighting service to the people in need.

Thanks for the development of lithium battery and solar charging system as well as led light technology, We are able to combine these great technology into one luminaire, which enable lighting up the night so easily and with the minimum cost.



### High Brightness LED

High brightness led enhances visibility and safety while providing energy-efficient



### LiFePo4 Battery

Grade A+ Battery cell with high uniformity of internal resistance and charging and discharging.



### MPPT Charge Controller

maximizes energy efficiency ensuring longer battery life and consistent illumination without blackout.



### Programmable by Remote

The lighting program can be modified anytime by remote control according to customers' requirement.



### Robust Design

Robust design of light fixture provides superior durability, corrosion resistance, and heat dissipation.



### Hybrid function (Solar & Grid)

Solar energy can be mixed with the power grid to ensure stable operation of street lights under any weather conditions

# Key components



Optical Lens



LiFePO4 Battery

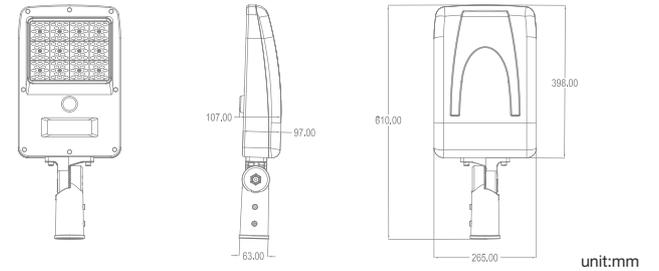


Motion Sensor

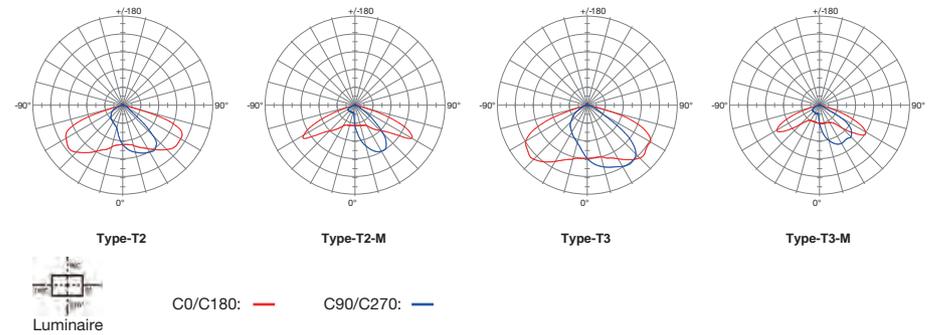


Adjustable Installation Bracket

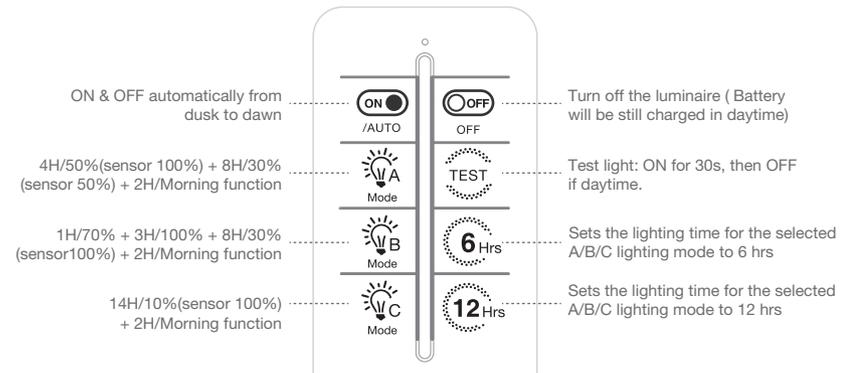
## PRODUCT SIZE



## LED OPTICS OPTIONAL



## REMOTE CONTROL



### Note :

1. Turn on switch button in the solar light before use.
2. Default lighting mode: A.
3. Modes A/B/C programs could be changed prior to notice, pls be subject to the sticker at backside of remote.
4. Press OFF to turn off light (Charging will be still functional), Press ON restores last setted mode.
5. 6Hrs/12Hrs : Set duration for current mode (A/B/C). Press mode button (A/B/C) again to reset to default time.

Remark:  
The designs and specifications in this spec sheet are subject to change without prior notice for product improvement.

## Regular Solar Panel Street Light

**30W** | 4,800lm



### Light Head

Luminous flux	4,800lm
Peak LED power	30W
CRI	>79
CCT range (dual color)	3000K / 4000K / 5000K / 6000K
LED lifetime	>100,000 hours
Light dimension	610*265*97mm
Warranty	3 years

### MPPT Controller

System voltage	12V
Regular solar panel	130W/18V
Vertical solar module	400W/18V
MPPT tracking efficiency	98%
Max load power	60W
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

### Solar Panel

Peak Power	80W
Max. power voltage	18V
Solar cells efficiency	22.3%
Cable & connector	0.9M solar cable + MC4 connectors
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Waranty	5 years

### LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	307WH 12.8V
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-25°C~65°C
Warranty	3 Years

## Regular Solar Panel Street Light

**50W** | 6,800lm



### Light Head

Luminous flux	6,800lm
Peak LED power	50W
CRI	>79
CCT range (dual color)	3000K / 4000K / 5000K / 6000K
LED lifetime	>100,000 hours
Light dimension	610*265*97mm
Warranty	3 years

### MPPT Controller

System voltage	12V
Regular solar panel	130W/18V
Vertical solar module	400W/18V
MPPT tracking efficiency	98%
Max load power	60W
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

### Solar Panel

Peak Power	100W
Max. power voltage	18V
Solar cells efficiency	22.3%
Cable & connector	0.9M solar cable + MC4 connectors
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Waranty	5 years

### LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	460WH 12.8V
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-25°C~65°C
Warranty	3 Years

## Vertical Solar Cylinder Street Light

30W | 4,800lm



### Light Head

Luminous flux	4,800lm
Peak LED power	30W
CRI	>79
CCT range (dual color)	3000K / 4000K / 5000K / 6000K
LED lifetime	>100,000 hours
Light dimension	610*265*97mm
Warranty	3 years

### MPPT Controller

System voltage	12V
Regular solar panel	130W/18V
Vertical solar module	400W/18V
MPPT tracking efficiency	98%
Max load power	60W
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

### Vertical Solar Cylinder

Peak Power	80W
Max. power voltage	6V
Solar cells efficiency	22.2%
Cable & connector	2.5mm <sup>2</sup> with Mc4 plugs
Operating Temperature	-20 °C ~ +70 °C
Lifetime	>20 years
Waranty	5 years

### LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	307WH 12.8V
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-25°C~65°C
Warranty	3 Years

## Vertical Solar Cylinder Street Light

50W | 6,800lm



### Light Head

Luminous flux	6,800lm
Peak LED power	50W
CRI	>79
CCT range (dual color)	3000K / 4000K / 5000K / 6000K
LED lifetime	>100,000 hours
Light dimension	610*265*97mm
Warranty	3 years

### MPPT Controller

System voltage	12V
Regular solar panel	130W/18V
Vertical solar module	400W/18V
MPPT tracking efficiency	98%
Max load power	60W
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

### Vertical Solar Cylinder

Peak Power	100W
Max. power voltage	6V
Solar cells efficiency	22.2%
Cable & connector	2.5mm <sup>2</sup> with Mc4 plugs
Operating Temperature	-20 °C ~ +70 °C
Lifetime	>20 years
Waranty	5 years

### LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	460WH 12.8V
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-25°C~65°C
Warranty	3 Years