



LiFePO4
Battery



Intelligent
Control



High brightness
LED



Biodiversity
Protection



IP65
Waterproof



Designed
Aesthetically



Remote
Control



Hybrid function
(Solar & Grid)

**AIT Solar
LED Street Light**

AIT-Series



AIT-Series | AIT Solar LED Street Light

AIT-Series solar-led street light is dedicated to providing continuous and ultra-high brightness output for the main road market. It build-in big capacity of LifePO4 battery pack up to 768WH max whose lifetime could reach to more than 10 years in energy-saving mode, and It equips 64pcs of SMD5050 (5W/led) as lighting engine, it is driven by constant voltage and lower current in order to get superb high luminous output up to 180lm/W. AIT-Series is a perfect model for poles from 6 meters up to 10 meters.



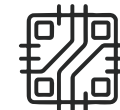
High Brightness LED

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.



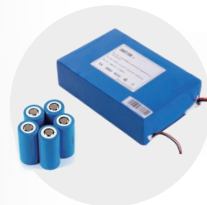
Hybrid function (Solar & Grid)

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



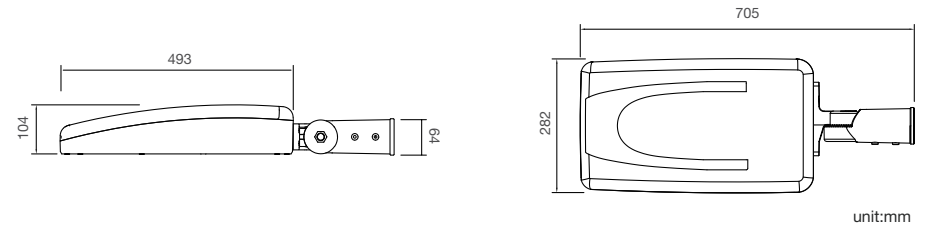
Die-cast aluminum housing



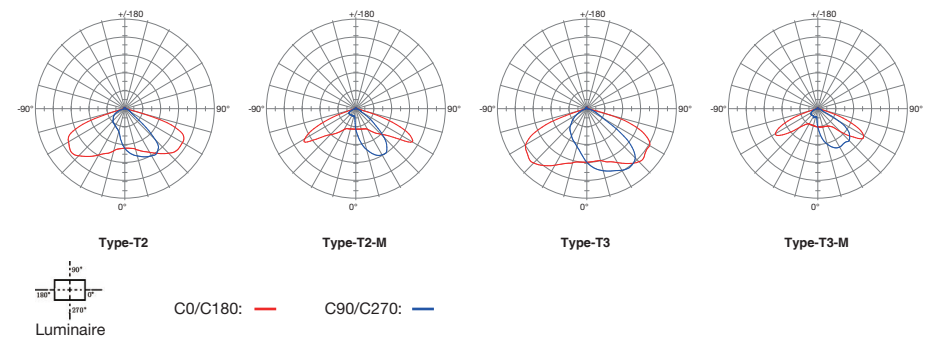
Adjustable installation bracket

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

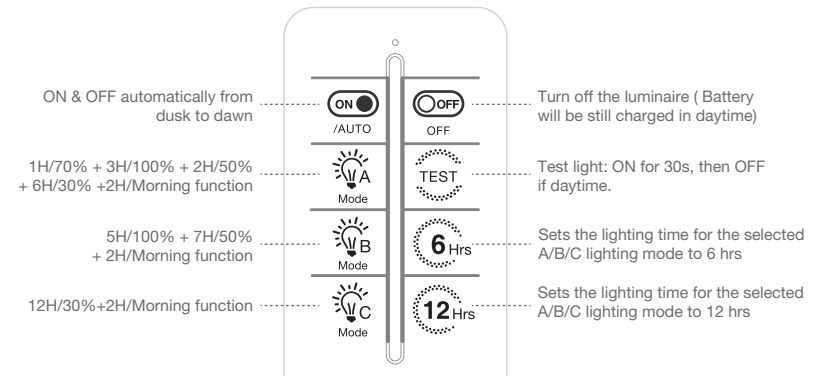
PRODUCT SIZE



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.

Regular Solar Panel Street Light

60W | 8,800lm



Light Head

Luminous flux	8,800lm
Peak LED power	60W
CRI	≥78
CCT range (dual color)	3000K / 4000K / 5000K / 6000K
LED lifetime	>100,000 hours
Light dimension	705*282*104mm
Warranty	3 years

MPPT Controller

System voltage	12V
MPPT tracking efficiency	98%
Max load power	80W
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	120W
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	538WH 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

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MPPT Controller

System voltage	24V
MPPT tracking efficiency	98%
Max load power	120W
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	160W
Max. power voltage	36V
Solar cells efficiency	22.3%
Cable & connector	0.9M solar cable + MC4 connectors
Operating Temperature	-40 °C ~ 85 °C
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Vertical Solar Cylinder Street Light

60W | 8,800lm



Light Head

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Peak LED power	60W
CRI	≥78
CCT range (dual color)	3000K / 4000K / 5000K / 6000K
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MPPT Controller

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IP rate	IP68

Vertical Solar Cylinder

Peak Power	140W
Max. power voltage	18V
Solar cells efficiency	22.2%
Cable & connector	2.5mm ² with Mc4 plugs
Operating Temperature	-20 °C ~ +70 °C
Lifetime	>20 years
Waranty	5 years

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Vertical Solar Cylinder Street Light

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EMITTER
ENERGY INC



Emitter Energy Inc.

Tel : +1 919 434 1405

Address : 12517 Calderwood St. Raleigh, NC 27614