2018 NEW

INTEGRITY . HIGH BRIGHTNESS . EASY-INSTALL
ALL-IN-TWO SOLAR LIGHT SERIES

SOLAR BATTEN LIGHT
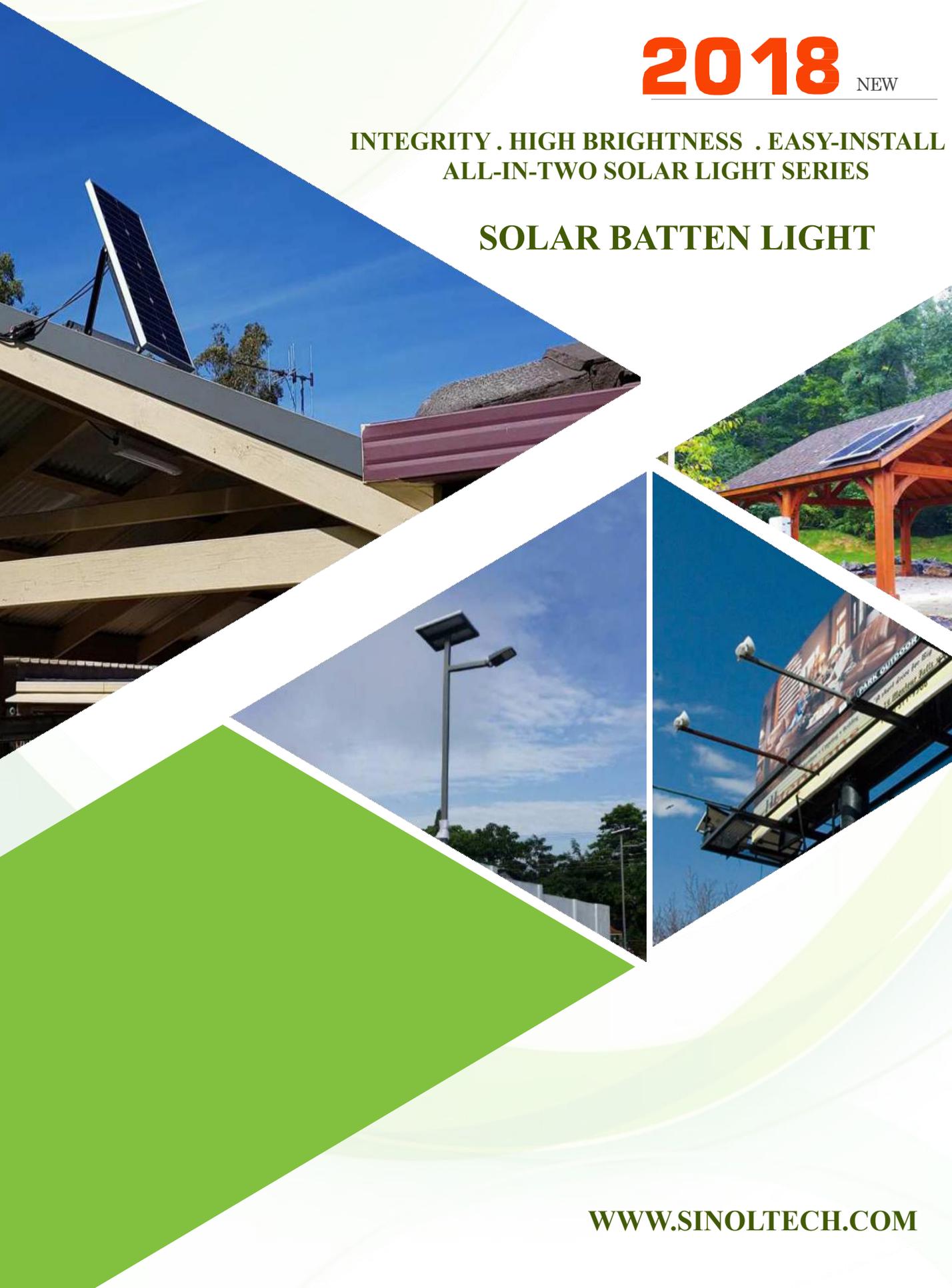
SINOLTECH®

| Remote Setting | Microwave Sensor | MC4 Plugs Connection | Lithium Battery | 12 Hrs/Day 130 LM/W |

All In Two(AIT) Solar LED Batten Light

12W | 18W | 24W | 36W | 48W
With Separate Solar PV
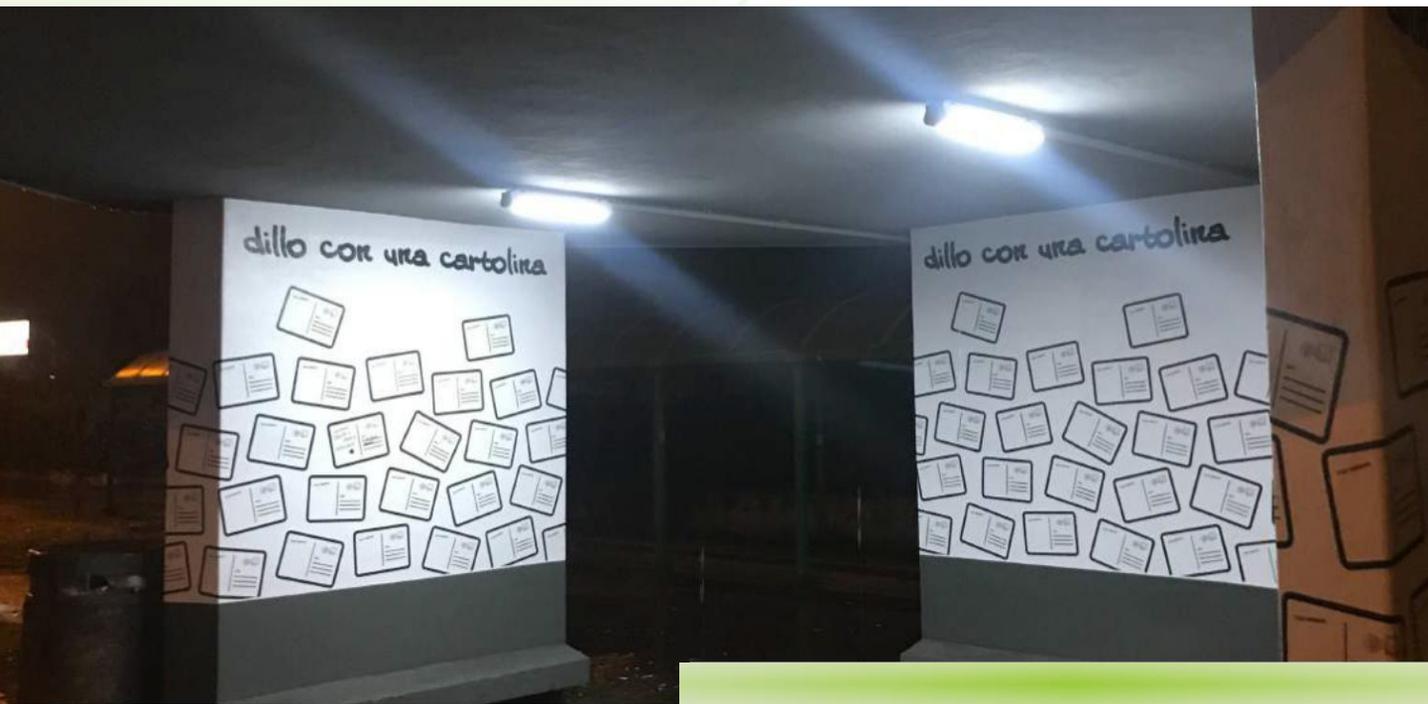
All In Two Series Solar Batten Light

Microwave Sensor

Switch Button

MC4 Plugs Cable
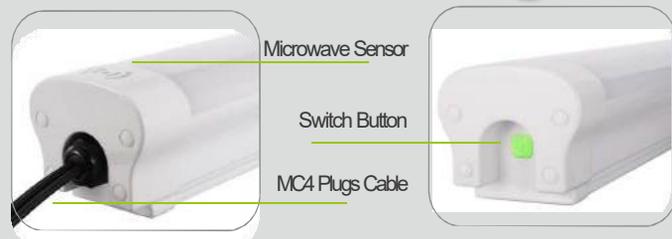
ALL IN TWO solar batten light is adapted from our most successful 4G Led Street Light built on the same platform is an answer to a vast solar lighting applications in urban and rural living.

LED Batten light has builtin Lithium battery and charge controller integrated with high power led source makes the light a unique weather proof lighting fixture with the advantage of solar. The easy MC4 plug in set up makes the light extremely easy for installation and portability. Built with high quality components, All In Two solar batten carport light can meet project requirements as well in any challenging environments.

SINOLTECH Solr batten light is able from 12 watts to 48 watts.

Efficient Control System

MPPT controller is adopted to all of All in Two solar led batten light, Charging faster by 30% than PWM controller. It ensures battery full charged each day and every night without black even if sunshine intensity is not stable all the year round.

Big Battery Capacity Backup

Compact solar light system with lithium batery inside. More than 4 days autonomy in energy saving mode or 12 hrs working in constant lighting with 100% power. Never worry about out of power any more.

72 Variable Lighting Modes

With 72 different lighting modes built-in, Setting a customized lighting mode is pretty by remote. Energy saving and constant lighting modes are switchable freely. What's more lighting brightness and duration can be set seperately.

Better Induction Performance

Microwave (radar) sensor is built-in. Comparing with PIR sensor, it can be triggered in a wider angle and longer distance. Ensuring light get ON or brighter immediately without any delay.

IP67 Weatherproof Fixture

Complete plastic material external housing,with aluminium bar inside for more efficent heat dissipation, perfectly designed for indoor or outdoor applications. Dust or moisture never goes inside.

Uniform Lighting Distribution

Using 0.2W SMD led chips as 0.1W only, drived by lower current, More than 130lm/watt pratically allows less power achieves higher effciency than low market solar lights.

SOLAR BATTEN LIGHTS

Applications:

Solar batten lights are capable of meeting many applications and challenging solar lighting requirements with extremely simple and easy installation capability. It is a perfect solution for many outdoor applications such as carports, bus shelters, warehouses, temporary shelters, outdoor kiosks, street kiosks, camping tents, Boats or any remote locations where grid is a challenge. Power and length of the lights can be customized to meet different project requirements as well

Model Selection:

Model No.	SN-X1500	SN-X2200	SN-X3000	SN-X4200	SN-X5500
Fixture IP	IP67				
Actual Size	92*84*600mm	92*84*600mm	92*84*900mm	92*84*900mm	92*84*1200mm
LED Type	SMD2835 144pcs	SMD2835 192pcs	SMD2835 264pcs	SMD2835 384pcs	SMD2835 504pcs
CCT Range	3000K~6500K				
Power max	12W	18W	24W	36W	48W
Efficiency max	1500lm	2200lm	3000lm	4200lm	5500lm
Viewing Angle	120°				
Sensor Type	Microwave Sensor				
Battery Capacity	144WH 12V	216WH 12V	288WH 12V	396WH 12V	528WH 12V
Charge Time	6 Hours				
Max Discharge Time	>48 Hours				
Controller Type	Programmable PWM Solar Controller		Programmable MPPT Solar Controller		
Solar Panel(Poly)	40W 18V	50W 18V	60W 18V	80W 18V	100W 18V
Panel Size	670*390*25mm	620*535*25mm	670*560*25mm	760*670*30mm	1000*680*30mm
Flexible PV Option	Thin Film 40W Semi Flex 40W	Thin Film 52W Semi Flex 50W	Thin Film 65W Semi Flex 60W	Thin Film 79W Semi Flex 80W	Thin Film 105W Semi Flex 100W
Working Temp.	-20°C~+65°C				
Control Method	Manual ON/OFF + Automatically ON/OFF				
Lighting Modes	72 lighting modes optional by remote control				
N.W/Light	3.30Kg	3.85Kg	4.75Kg	5.80Kg	7.70Kg
G.W/Light	3.70Kg	4.15Kg	5.20Kg	6.15Kg	8.20Kg
Qty/CTN	6Pcs	6Pcs	6Pcs	6Pcs	4Pcs
CTN Size	70*22*30CM	70*22*30CM	100*22*30CM	100*22*30CM	130*22*21CM

Working Mode

Magic Remote Controller Manual

Magic remote controller is specially developed for solar batten light, it is a combination of all the possibility of lighting modes required for different lighting application. Not only allowing user to set the power as 20% 40% 60% and 100% freely, but also to change the lighting time from 1 hour to 12 hours easily.

What's more, there are 4 different lighting mode (A B C D) built-in, User can set a lighting mode ,directly , and press the button of time zone to set time.Also, this remote also support light to work in day time even if the light is charged by solar panel.
It makes the light to work in indoor lighting perfectly.

Modes Zone

Time Zone

Key Button Manual

**ON/OFF** override button. 100% Light Output

AUTO Auto Function (Not Used). By Default Auto Function is programmed ON. (Auto OFF During Day, Auto ON During Night)

Test Function. Light will operate for 20 seconds.
 - The red indicator light will operate inside the end-cap if the battery is low / over-discharged.

20% 40% 60% 80% Constant light mode
- Amount of Light output depends on the percentage selection.
- By default the light will operate for 12 Hours.
* Helpful Hint.
  Select a Time Setting (e.g. 4H) within 5 seconds to modify the default operating time.

A Light Output 0%. When sensor triggered - Light Output 100% for 1 minute.

B Light Output 30%. When sensor triggered - Light Output 100% for 1 minute

C Light Output 50%. When sensor triggered - Light Output 100% for 1 minute.

D Light Output 100% (First 6 hrs). Light Output 50% (Second 6 hrs) - When sensor is triggered - Light Output 100% for 1 minute.
* Helpful Hint. Press "D" and a Time Setting (e.g.7H) = 100% for 3.5 hours then 50% for next 3.5 hours + 100% with sensor.

1H 2H 3H 4H Time Setting mode
- Light Duration based on selection.
* Helpful Hint.
- Select 20% then 4H. Light will operate at 20% for 4 Hours.
- Select C then 8H. Light will operate at 50% for 8 Hours + 100% if sensor triggered.
- Select D then 3H. Operate at 100% for 1.5 Hours, 50% for 1.5 Hours + 100% with sensor.

**5H 6H 7H 8H 9H** 5-6-7-8-9 are similar time function as 1-2-3-4....

Notice : The remote should be operated within 3M to light sensor.

Structure

Plugs Connection

MC4 Connectors

Dimension

600 / 900 / 1200

92

84

Unit : mm

Inner Structure

Microwave Sensor (Inside)

MPPT / PWM Solar Chargeer

SMD LED Source

Lithium Battery Pack

2.5mm2 Solar Cable with MC4 Plugs
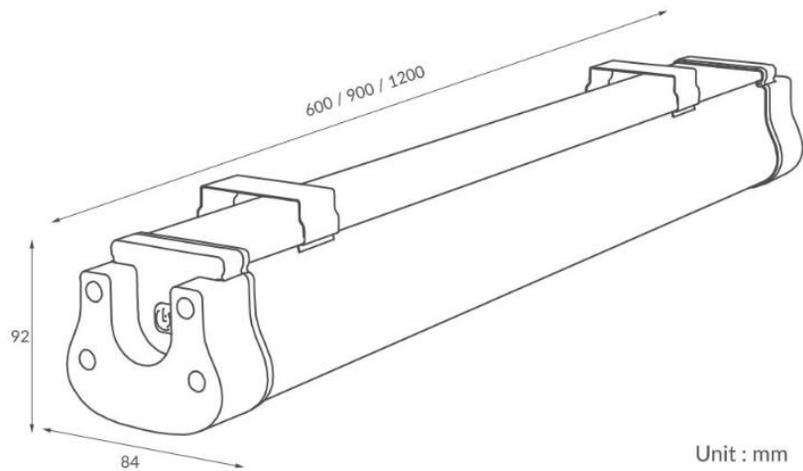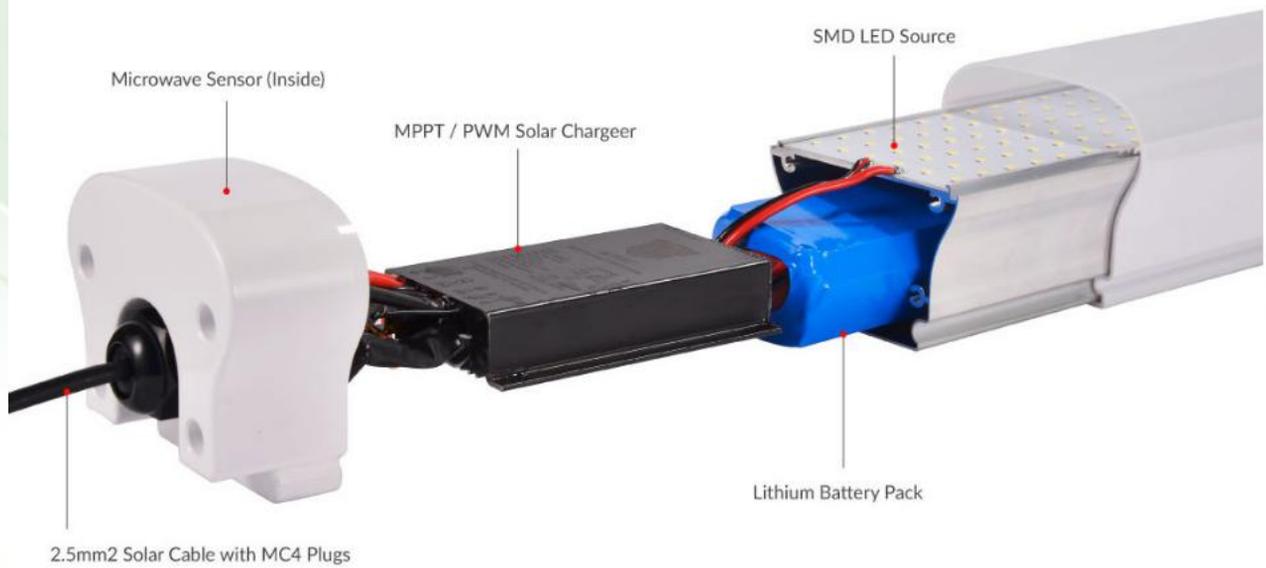
Structure

Motion Sensor

What is Microwave Sensor?

Microwave (Radar) sensor is adopted in this light in order to save more energy. Energy saving mode is adjustable by the remote control easily. Radar sensor is more sensitive than PIR sensor in much wider angle and longer distance, and it can be triggered easily with slight movements.

The best sensitive distance from people / object to light sensor should be within 12 meters.

Solar Radiation

Yearly Sum in Kw/m²

- 2500
- 2000
- 1500
- 1000
- 500
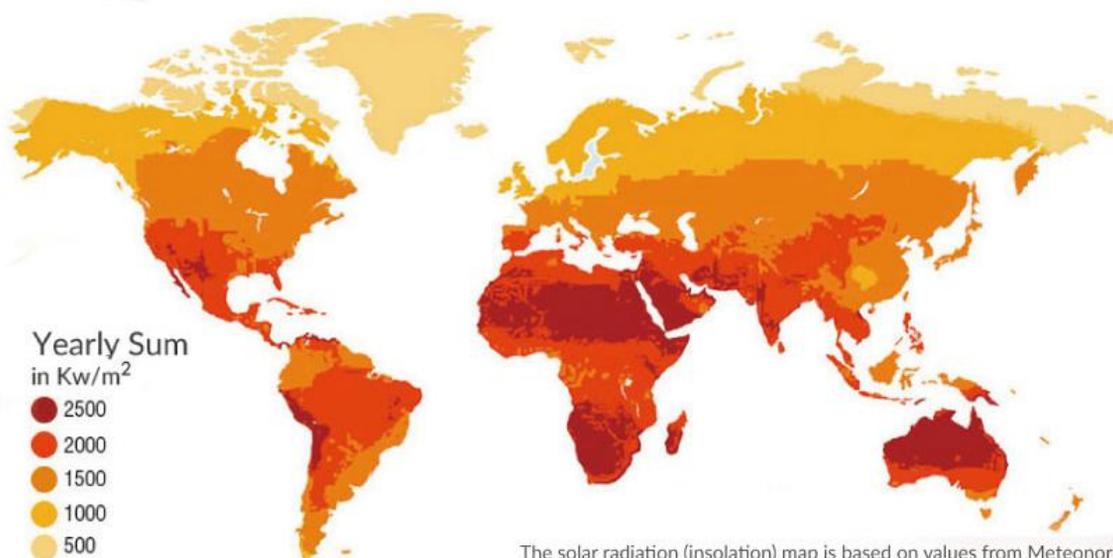
The solar radiation (insolation) map is based on values from Meteonorm

Proportion Between LED Light and Solar Panel. (For reference only.)

REGION	LIGHTING MODE	CHARGE TIME	LED POWER	SOLAR PANEL
2500	6H 100% + 6H 50%	4.5 Hours	10W	>20W
2000	6H 100% + 6H 50%	4.5 Hours	10W	>25W
1500	6H 100% + 6H 50%	4.5 Hours	10W	>30W
1000	6H 100% + 6H 50%	4.5 Hours	10W	>40W
500	6H 100% + 6H 50%	4.5 Hours	10W	>50W

Comparison

Comparison

What's advantages of AIT Solar Batten Light?
(Example : Solar Lighting for Bus Station Application)

Comparing with traditional solar lighting , It is more efficienct and more simple connection to use all in one solar batten light (All in one solar batten light / All in one Solar Tri Proof Light). AIT Batten light adopts modular design as all components are connected by female and male connectors. It allows customers to replace the battery or controller easily if needed.

With remote setting, the power and the time duration of lighting can be easily adjusted, 72 differrent lighting modes avaible built-in MPPT controller. AIT Solar Batten light will be an very excellent as part of solar lighting solution since 2018.

01. Solar LED Tube Light

02. Solar Panel

03. Remote Controller Optional

10:1

01. LED Tube Light

02. Gel Battery

03. Solar Controller

04. Solar Panel

05. Battery Box

06. Cables

Above comparion are based on same power of lighting, and same battery capacity

LED Batten Light with Normal PV

LED Batten Light with Flexible PV

LED Batten Light with Semi Flex PV

SINOLTECH ENERGY LIMITED
SHANDONG SINOLTECH INTERNATIONAL CO., LTD

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One-Stop Solar Energy Solution Provider

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