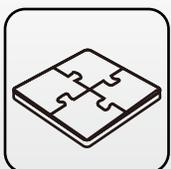




## **AE2 All In One** Solar Street Light (2015 version)

AE2 Series is the world's first 'All-In-One' solar powered LED light. Fully integrated all of its components and motion sensor within an attractive and compact design, AE2 not only saves more energy but also improved light efficiency. By critically choosing advanced Li-ion battery and corrosion resistant material, we created at least three times longer lifespan and extremely simple way for installation solar street light compare with traditional one that equipped with lead acid battery. AE2 redefined solar street light in both intension and extension.

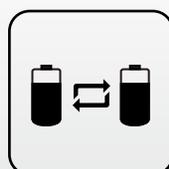
AE2 (2015 Version) is applying revolutionary technology developments of MPPT(Maximum Power Point Tracking) controller, improved LED lens and Multi-platform wireless controlling system to deliver the most intelligent solar lighting solution available today.



**All In One Design**



**MPPT  
Controller**



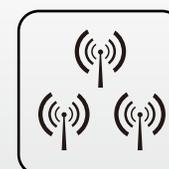
**Battery  
Management  
System**



**CREE LED**



**Infrared  
Motion  
Sensor**

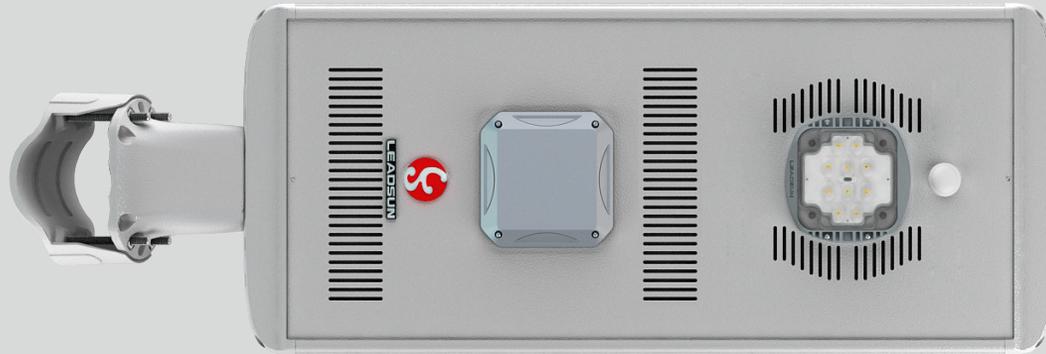


**Wireless  
Control  
System**



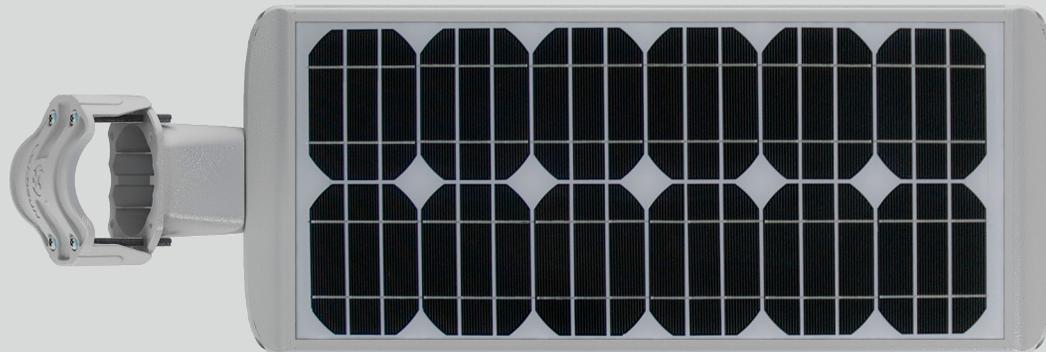
**IP65**

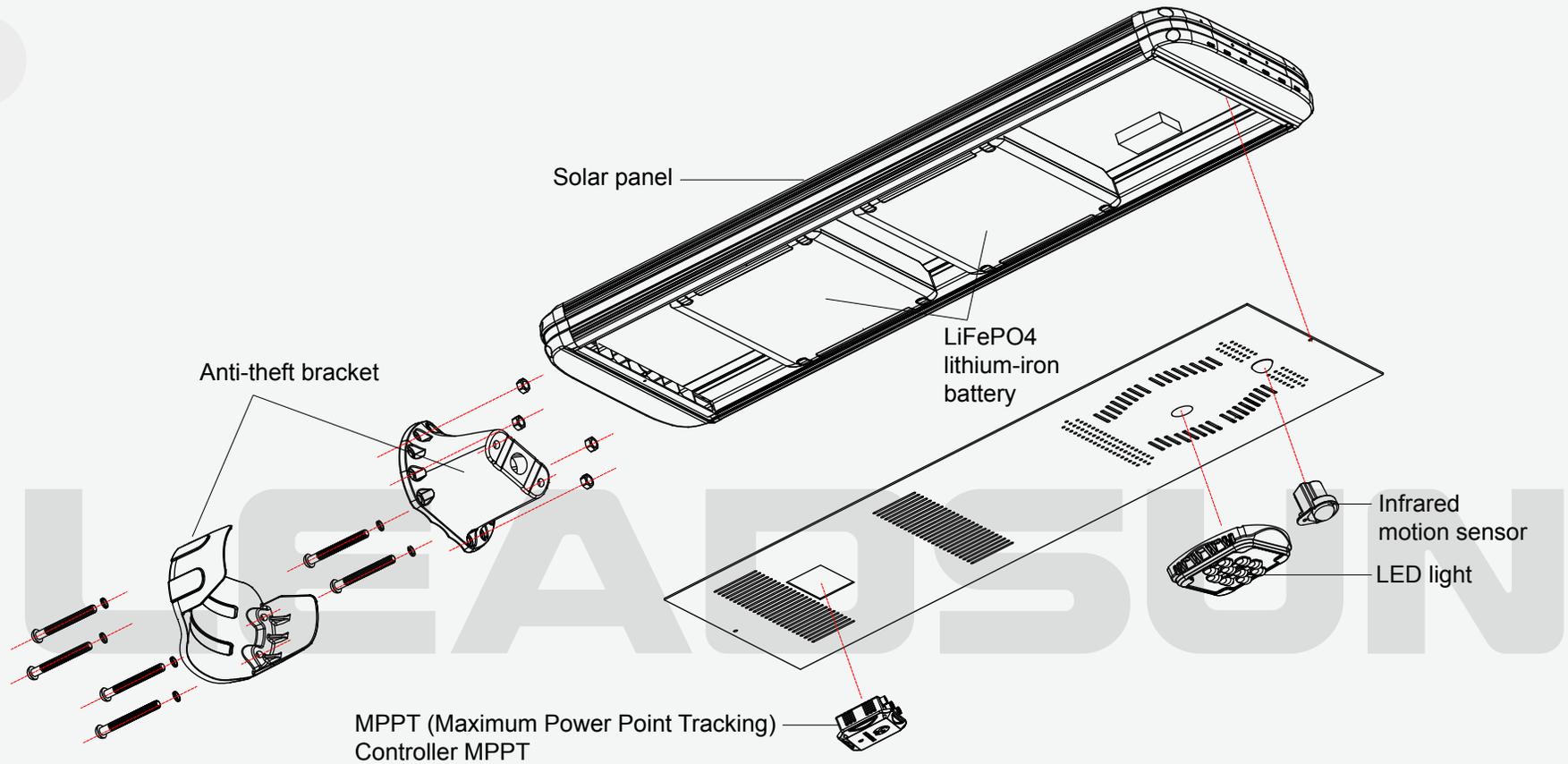
1



## All In One Design

Their integrated photovoltaic module, charging controller and LiFePO<sub>4</sub> battery combine with high output LEDs and human infrared sensor to achieve multiple features such as high luminance, long lifespan, minimal maintenance and easy installation.





## Product Structure

Major components is Modularity design with IP65 rate, which is easy assemble and maintenance.

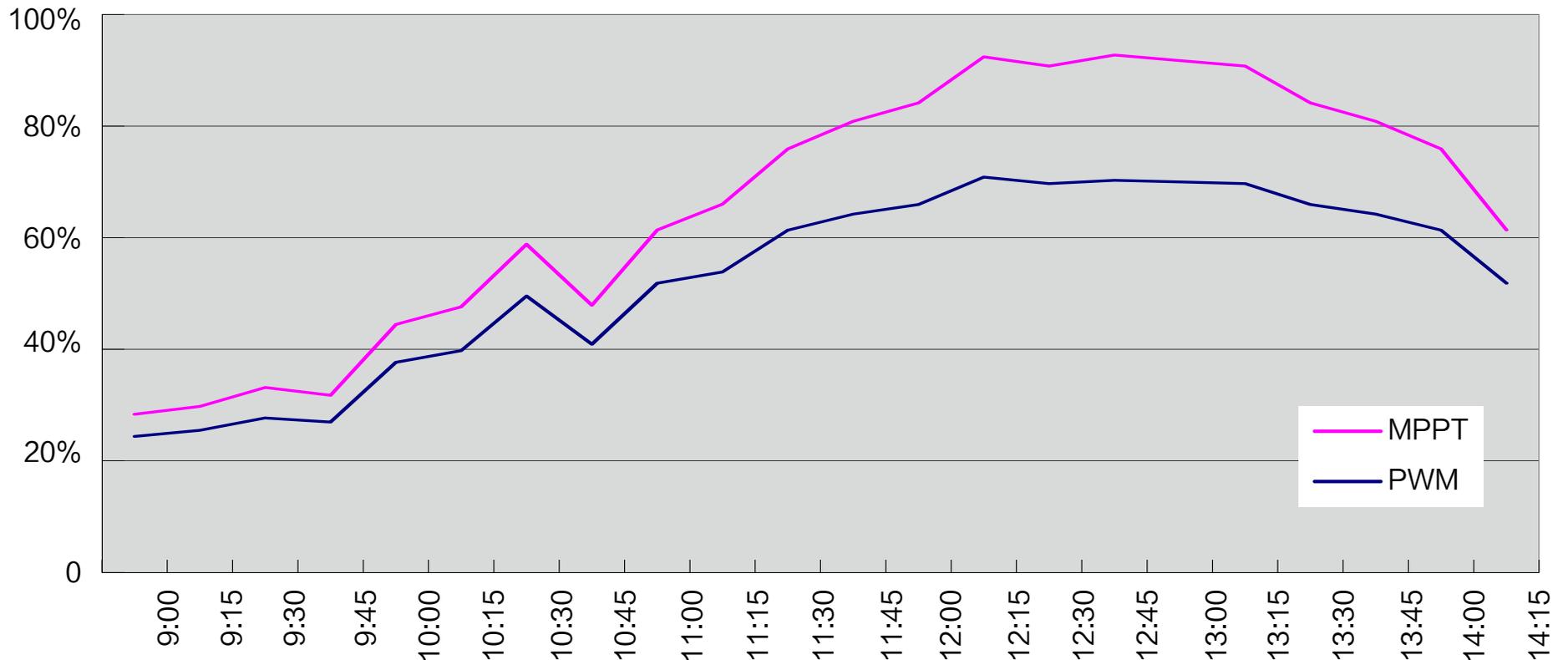
IP65 rated components ensure endurance against harsh weather and keep AE Series free from corrosion and premature failure.

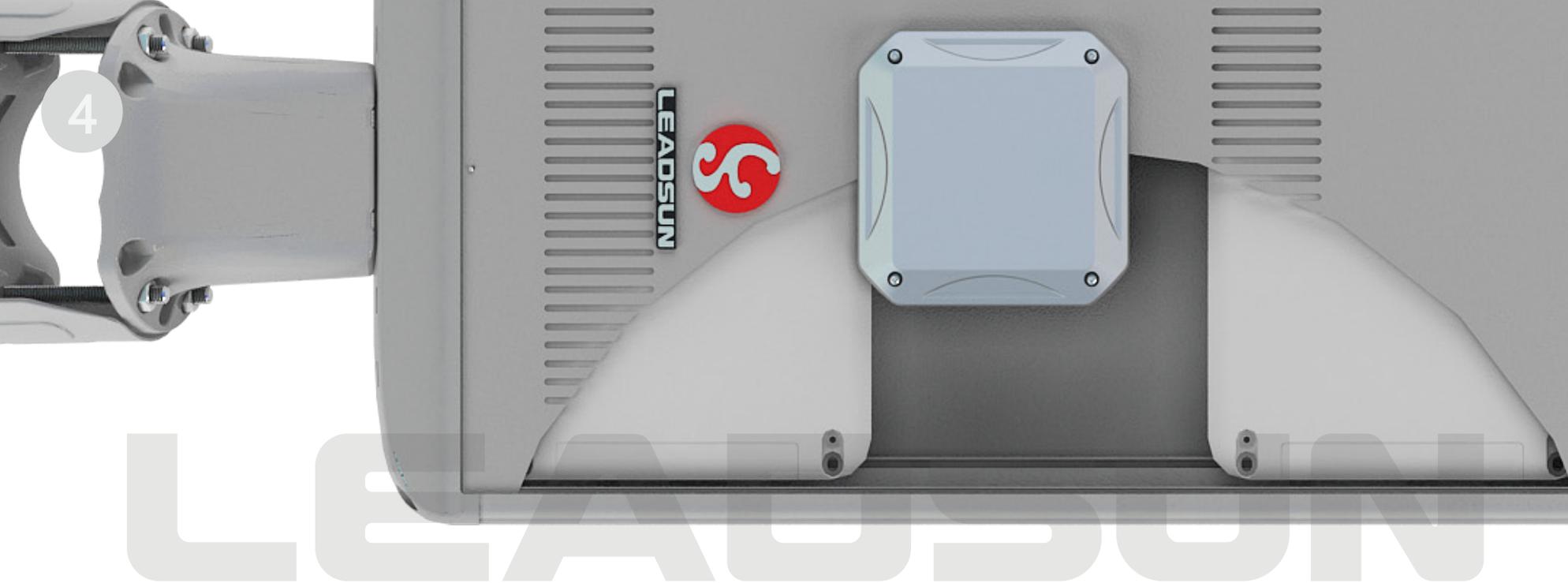


## MPPT Controller

MPPT (maximum power point tracking) controller automatically track the maximum power point according to the weather variation. Its charging rate is **16~30%** higher than PWM controller.

### Charging efficiency contrast \*





## Battery Management System

Adopted advanced LiFePO<sub>4</sub> lithium-iron battery. Compared with lead-acid battery, LiFePO<sub>4</sub> battery discharge depth is **4 times** higher and its cycle life is **5 times** longer than lead-acid battery.

Battery long lifespan is up to 8 years with Leadsun patented battery management technology.

5

## CREE LED

Adopted CREE 5 watts LED with average light illumination of 130lm @350mA, 85°C.

## Bat wing light distribution

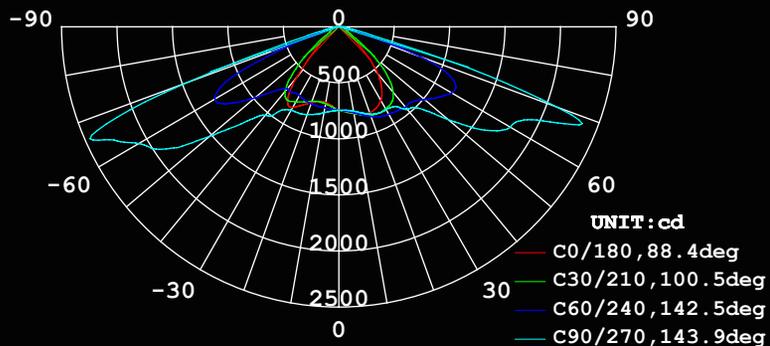
Leadsun new design light distribution lens widely improve illumination effect.

Compared with the last generation product, illumination area enlarge **40%** more, and illumination uniformity does improve up to **200%**.

12W

20W

Bat wing light distribution curve



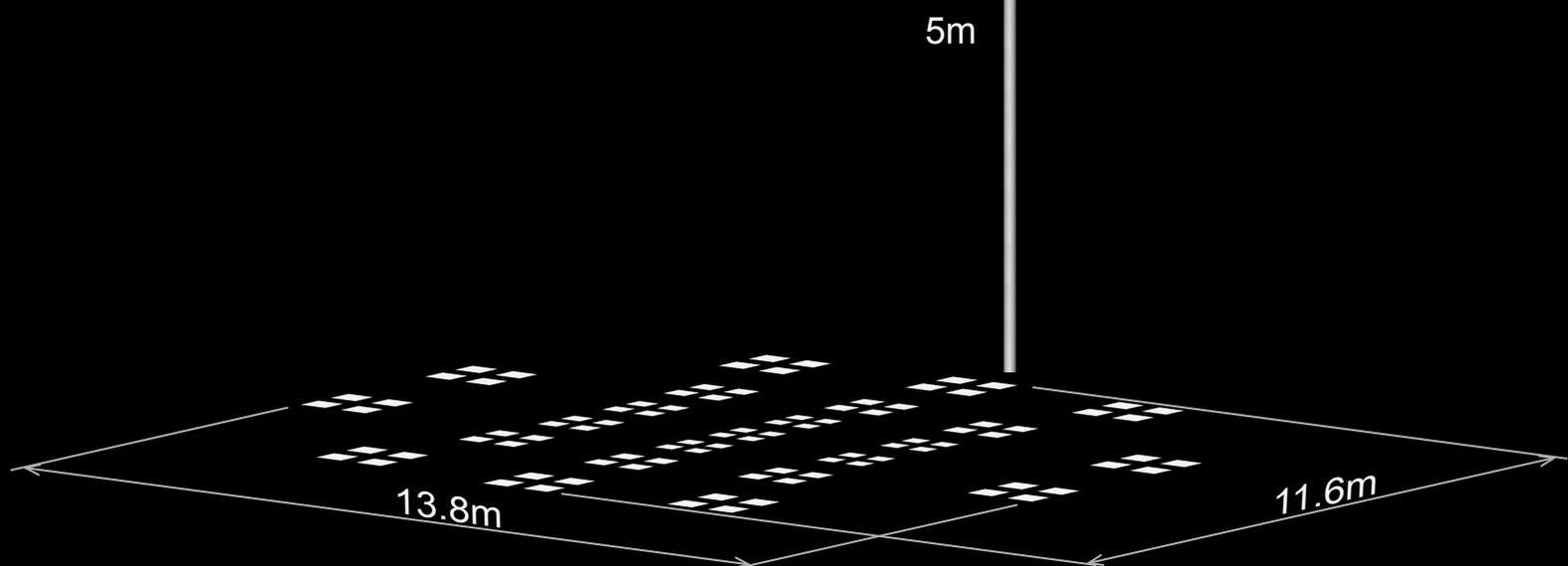
AVERAGE BEAM ANGLE (50%) : 118.8 DEG

Light intensity diagram



## Motion detection

The AE2 series comes complete with built-in motion detection system that automatically regular the light source from full bright (100%) to the energy saving output (30%) to increase battery autonomy.



Infrared motion sensor detection area

# LIVESUN<sup>®</sup> Wireless System

By choosing a wireless module (Bluetooth, 433 or GPRS), users can wirelessly control the light, monitor working status, set custom working mode or review historical charging data. AE2 bring endusers a easier way to control their outdoor lighting than even before.



You can do below through LIVESUN:

## Control the light

Turn ON or turn OFF the light and change light intensity in the range of 10% to 100%.

## Track historical data

Review monthly report to track every day's power generation, inner temperature and detail records for charging and discharge.

## Set custom working mode

Users can set their own working mode according to the local solar irradiance or peak sun hours and other lighting requirement.

## Real-time supervision

Monitor the status of main components and real time charging / discharging data.

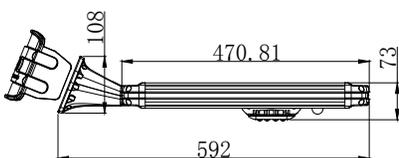
# Technical Data

●: Standard, ○: Optional, /: N/A

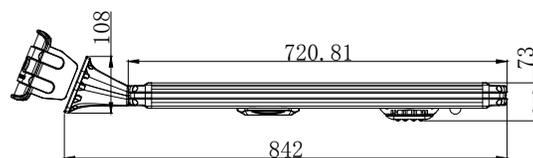
Model No.	AST1508DM	AST2510GM	AST2510IM	AST4020KM	AST4020LM
<b>Physical Parameters</b>					
Max. Power of LED Chips	CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED
Qty. of LED Chips	10pcs	10pcs	10pcs	24pcs	24pcs
PV Module Power	15W	25W	25W	40W	40W
Liuthium Battery Capacity	77WH	115WH	154WH	192WH	230WH
PIR Sensor	●	●	●	●	●
Bluetooth	/	○	○	○	○
Wireless System	433MH	○	○	○	○
GPRS	/	○	○	○	○
Net Weight of Product	6.6Kg	8.9Kg	8.9Kg	12.5Kg	12.5Kg
<b>Light Parameters</b>					
Light Output (Factory setting)	8W	10W	10W	20W	20W
Optical Distribution	Bat Wing	Bat Wing	Bat Wing	Bat Wing	Bat Wing
Visual Angle	140°× 70°	140°× 70°	140°× 70°	140°× 70°	140°× 70°
Color Tempaure	5000K	5000K	5000K	5000K	5000K
Max. Luminous Flux	960lm	1200lm	1200lm	2400lm	2400lm
Min. Working Time	Bright Mode 8.5h DIM Mode (30%) 28h	10h 33h	14h 46h	8.5h 28h	10h 33h
Light Photosensitivity	30lx	30lx	30lx	30lx	30lx
<b>Environment Requirement</b>					
Charge Temperature	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C
Discharge Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Storage Temperature	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C
<b>Installation Suggest</b>					
Recommended Installation Height	3~4m	3~5m	3~5m	4~7m	4~7m
Recommended Installation Distance	10~15m	12~20m	12~20m	15~30m	15~30m
Recommended Diameter of Lamppost	60~90mm	60~90mm	60~90mm	60~90mm	60~90mm

Physical Dimensions	AST1508DM	AST2510GM / AST2510IM	AST4020KM / AST4020LM
		592(L)×306(W)×108(T)mm	842(L)×306(W)×108(T)mm

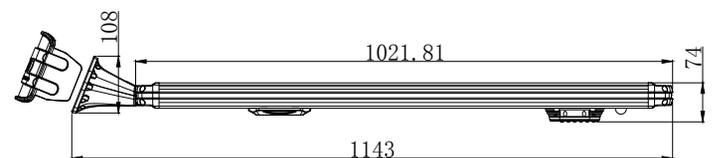
## Physical Dimensions (mm)



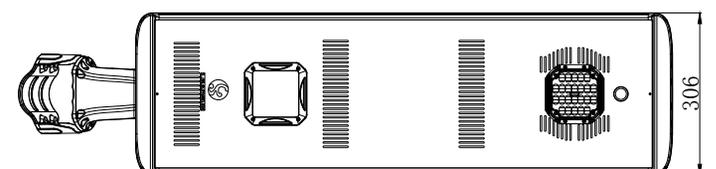
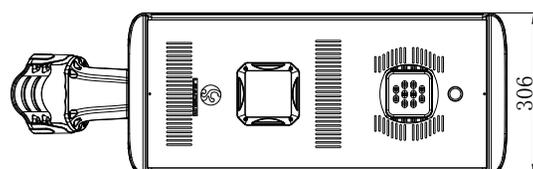
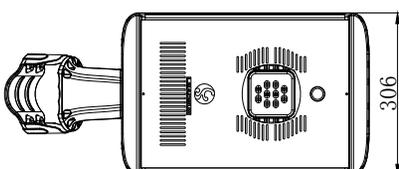
AST1508DM



AST2510GM/AST2510IM



AST4020KM/AST4020LM





**LEADSUN**<sup>®</sup>

To promote an environmentally sympathetic and socially conscious world through superior technology and innovation.

We strive for harmony between technology and the environment to help people lead healthier and more productive lives.

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**LEADSUN INTERNATIONAL LIMITED**

Tel: +86-756-2289712 Fax: +86-756-8682090

E-mail: [sales@leadsunglobal.com](mailto:sales@leadsunglobal.com)

[www.leadsunglobal.com](http://www.leadsunglobal.com)

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