

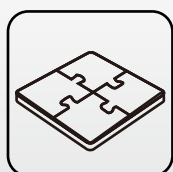


AE3C All In One Solar Street Light (Swivel Type)

The AE3C "Swivel" is extremely versatile, robust ALL IN ONE solar street light. Their integrated photo voltaic module, Lithium battery, human infrared sensor and newly developed MPPT charging controller and LED lamp to achieve multiple features such as high luminance, long lifespan, minimal maintenance and easy installation.

With its adjustable design of LED lamp head and bracket, AE3C "Swivel" light can capture the maximum solar energy by setting direction of PV module face to the solar radiation while the lamp face to the site for illumination.

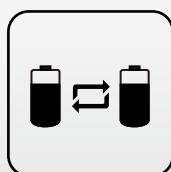
By choosing a wireless module (Bluetooth, 433 or GPRS), users can wirelessly control the light, monitor working status, custom a working mode or review historical charging data. AE3C bring you a easier way to control the outdoor lighting than even before.



All In One Design



**MPPT
Controller**



**Battery
Management
System**



CREE LED



**Infrared
Motion
Sensor**



**Wireless
Control
System**



IP65

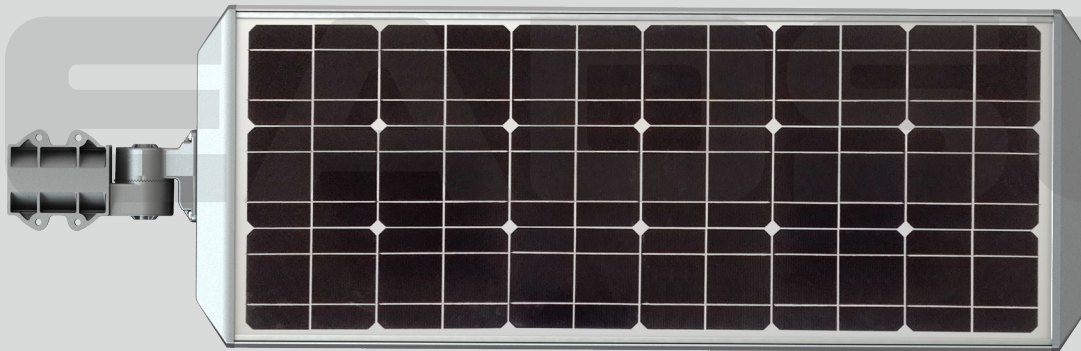
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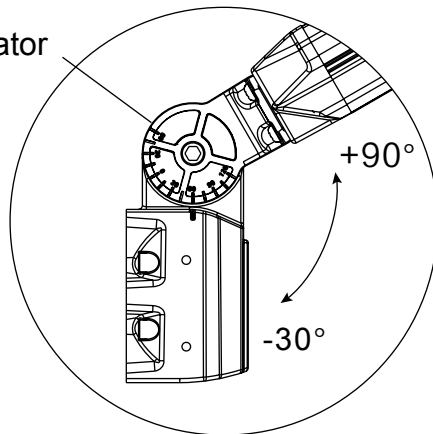
All In One Design

The AE3C continue to use All In One design for delivering multiple features such as long lifespan, minimal maintenance and easy installation.

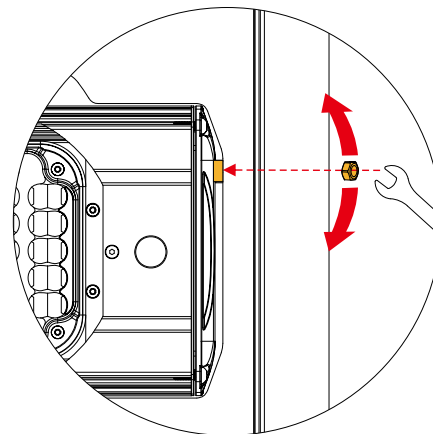
Even it's larger, but completely flexible. More powerful, but extremely efficient. It creates perfect solution for off grid application.



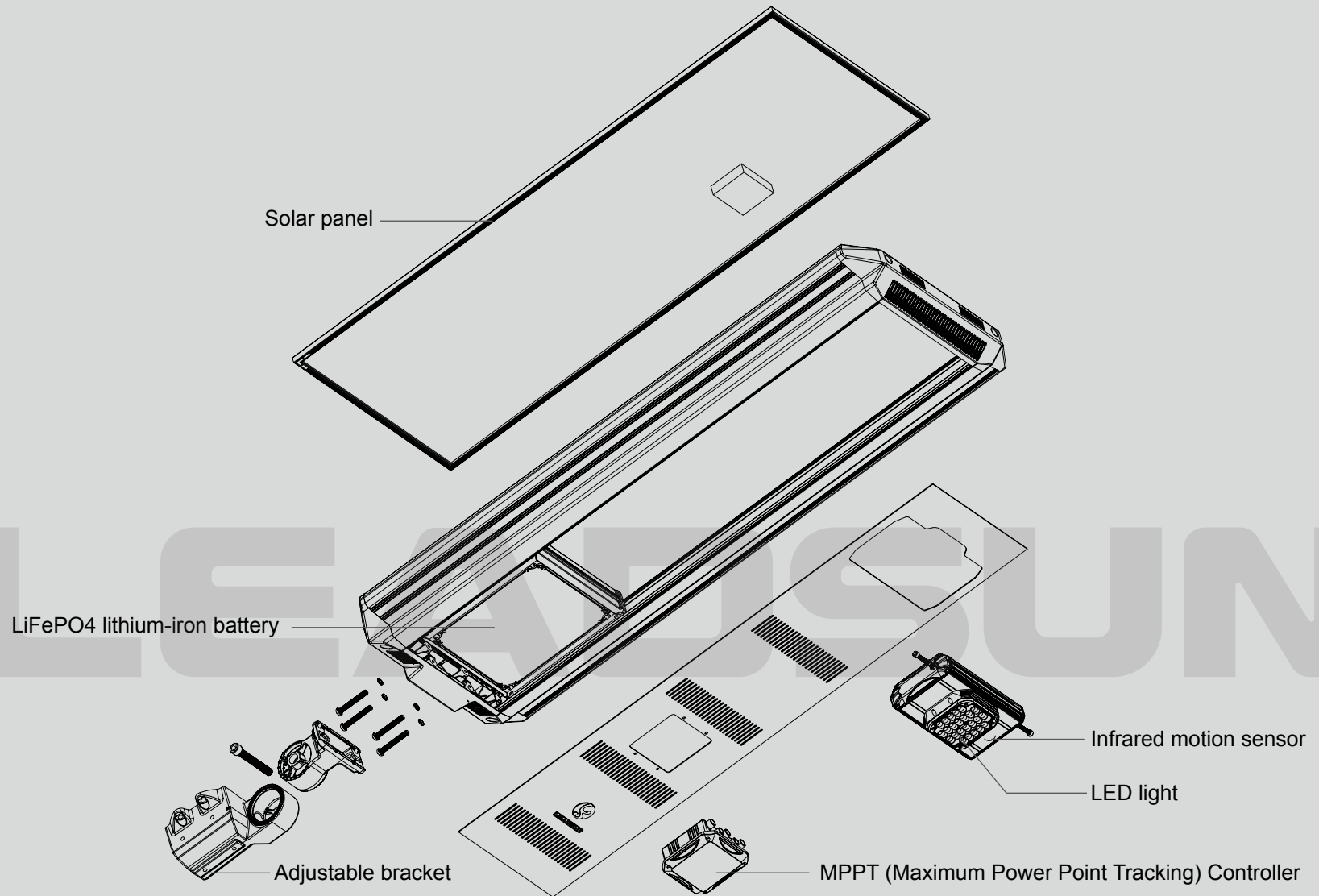
Angle indicator



The adjustable bracket can be adjusted range from -30° to +90° (each scale is 6 degree).



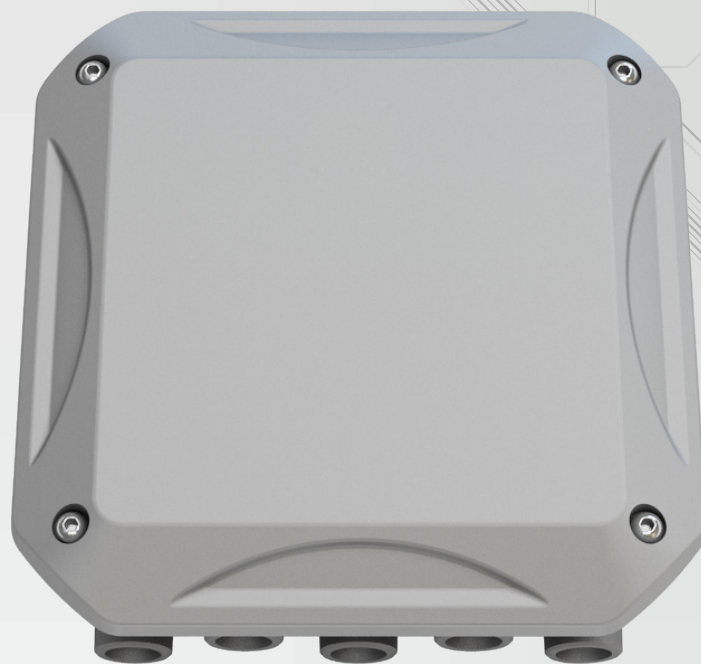
The lamp module can be adjusted range from -15° to +50° .



Product Structure

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

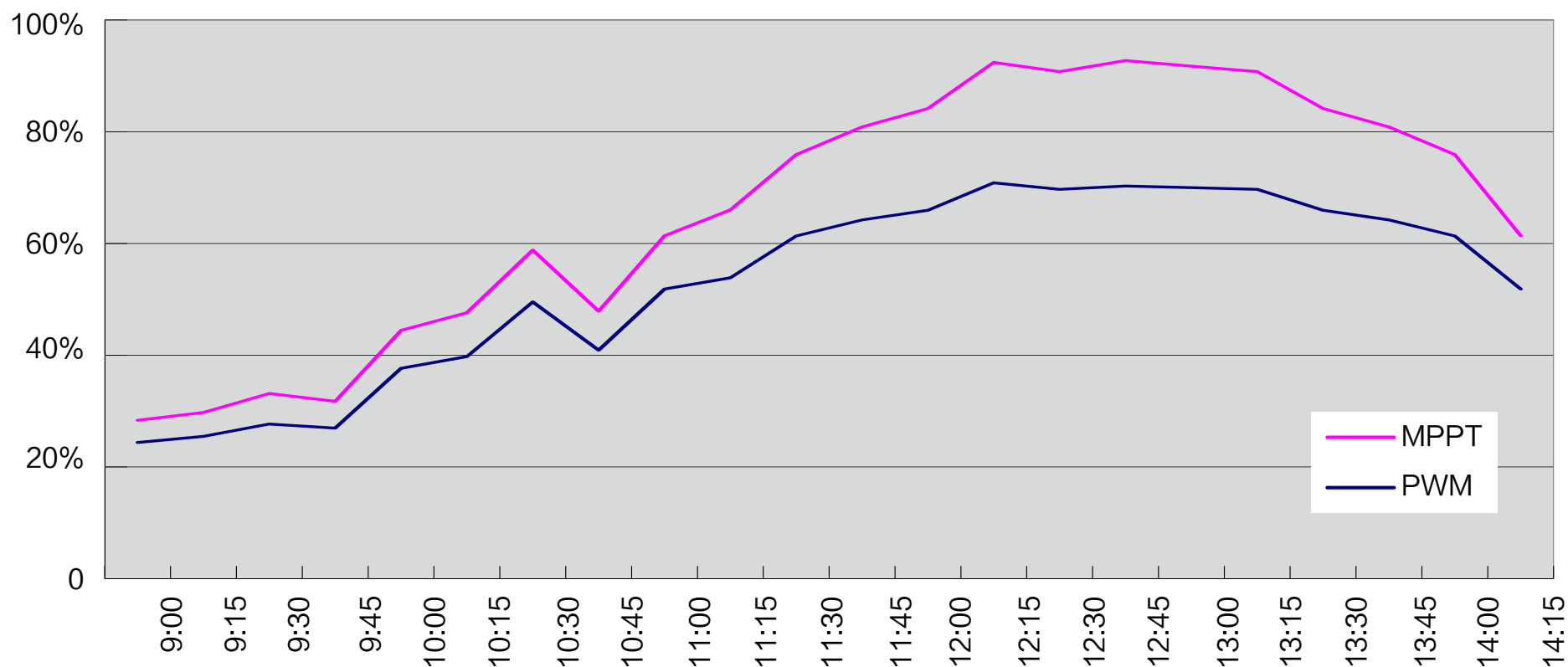
IP65 rated components ensure endurance against harsh weather and keep AE Series free from corrosion and premature failure.



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

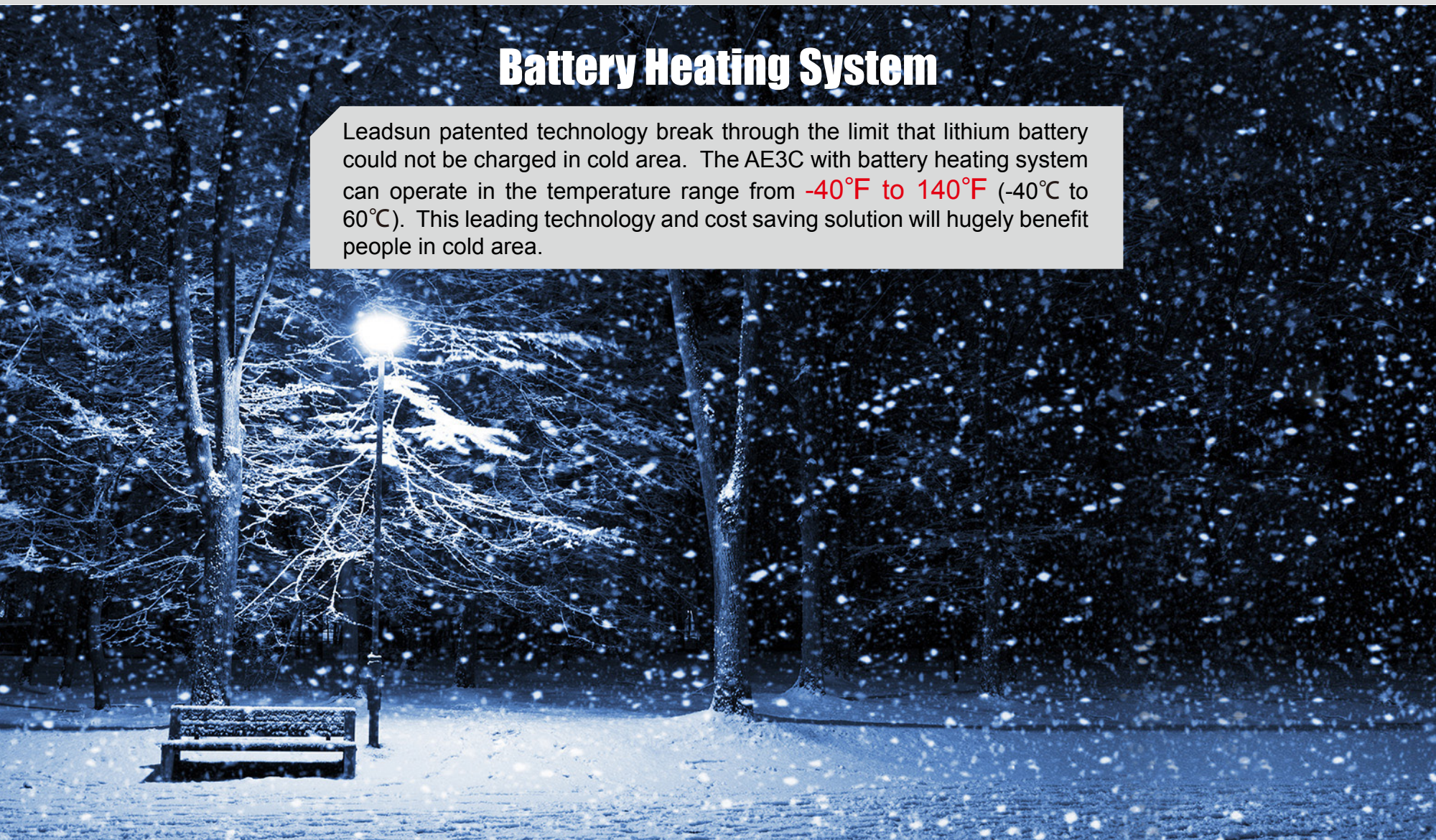
Adopted advanced LiFePO₄ lithium-iron battery. Compared with lead-acid battery, LiFePO₄ battery discharge depth is **4 times** higher and its cycle life is **5 times** longer than lead-acid battery.

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

LEADSUN

Battery Heating System

Leadsun patented technology break through the limit that lithium battery could not be charged in cold area. The AE3C with battery heating system can operate in the temperature range from **-40°F to 140°F** (-40°C to 60°C). This leading technology and cost saving solution will hugely benefit people in cold area.



CREE LED

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

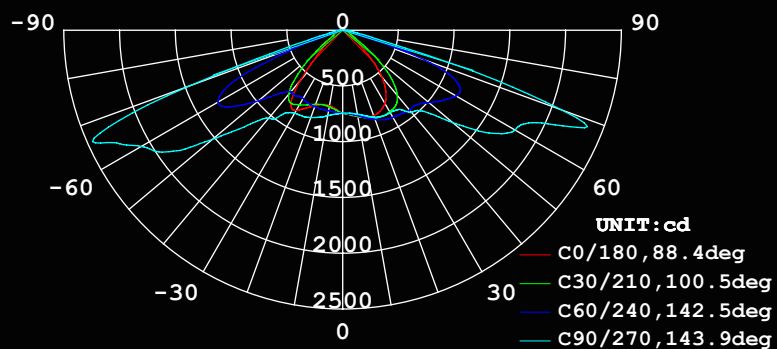


Bat wing light distribution

Leadsun new design light distribution lens widely improve illumination effect.

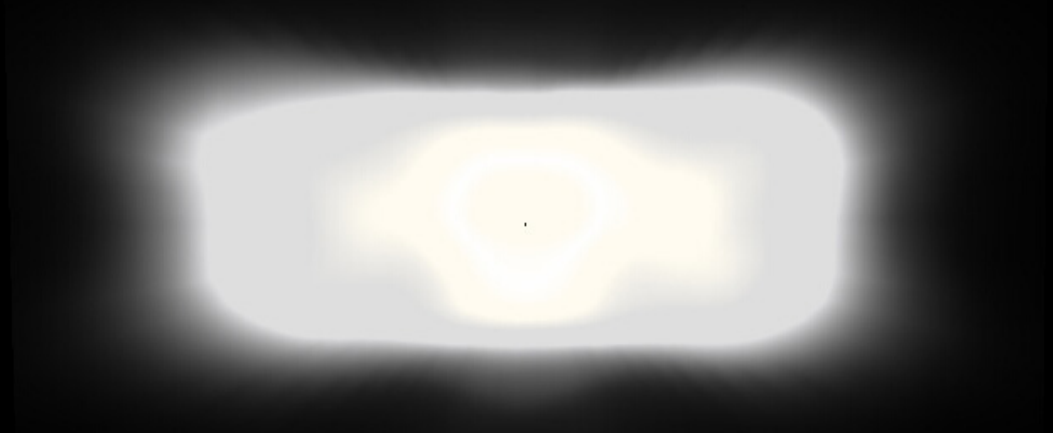
Compared with the last generation product, illumination area enlarge **40%** more, and illumination uniformity does improve up to **200%**.

Bat wing light distribution curve



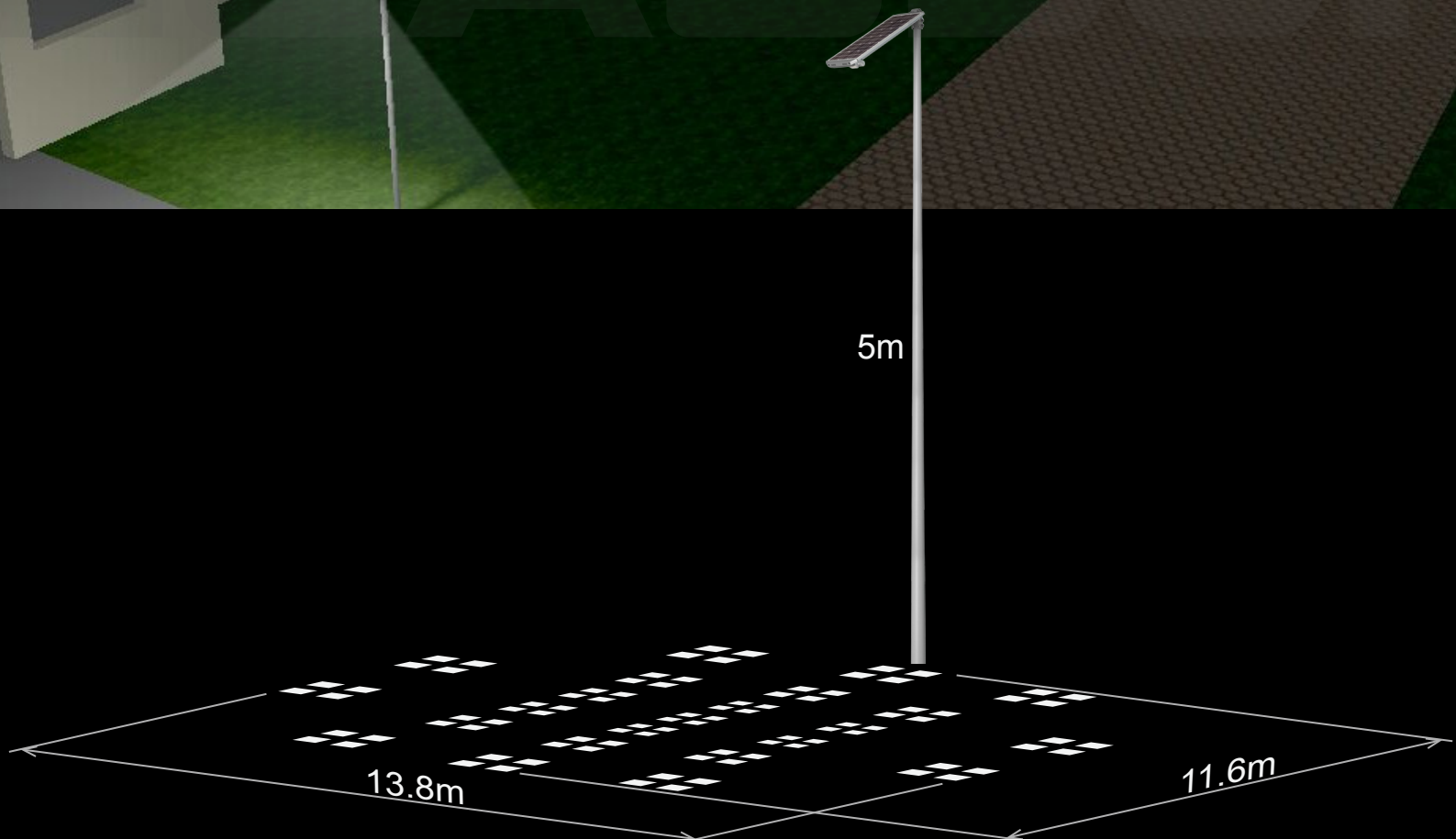
AVERAGE BEAM ANGLE (50%) : 118.8 DEG

Light intensity diagram



Motion detection

The AE3C 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[®] 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. AE3C 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.

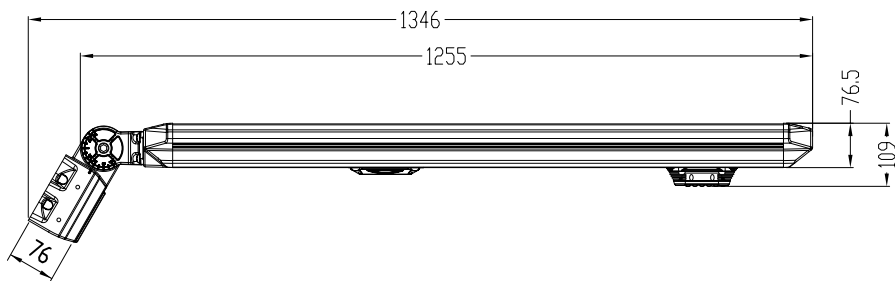
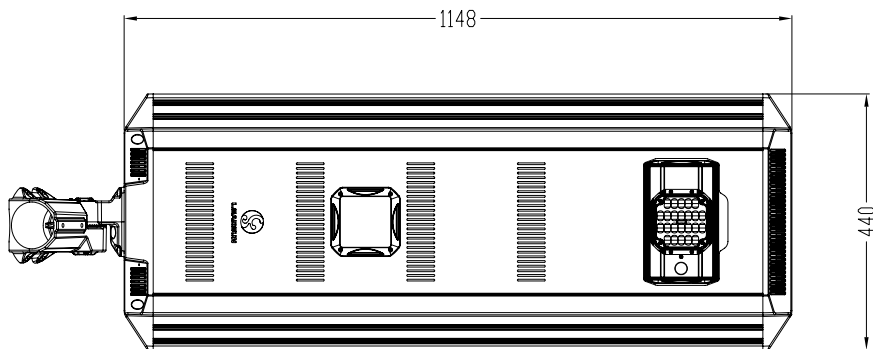
Real-time supervision

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

Technical Data ●: Standard, ○: Optional, /: N/A

Model No.		AE3CR7030NM	AE3CRH7030LM
Physical Parameters			
Max. Power of LED Chips		CREE 5W LED	CREE 5W LED
Qty. of LED Chips		24pcs	24pcs
PV Module Power		70W	70W
Liuthium Battery Capacity		346WH	230WH
PIR Sensor		●	●
Battery Heating Function		/	●
Wireless System	Bluetooth	○	○
	433MH	○	○
	GPRS	○	○
Net Weight of Product		17.6KG	17.2KG
Demension of Carton		1325(L)×170(W)×510(T)mm	1325(L)×170(W)×510(T)mm
Gross Weight of Product		20.2Kg	19.8Kg
Light Parameters			
Light Output (Factory Setting)		30W	30W
Optical Distribution		Bat Wing	Bat Wing
Visual Angle		140°× 70°	140°× 70°
Color Temperaure		5000K	5000K
Luminous Flux (Typical)		3600lm	3600lm
Min. Working Time	Bright Mode	10h	6.5h
	Dim Mode (30%)	33h	21h
Light Photosensitivity		30lx	30lx
Environment Requirement			
Charge Temperature		32°F~140°F (0°C~60°C)	-40°F~140°F (-40°C~60°C)
Discharge Temperature		-4°F~140°F (-20°C~60°C)	-40°F~140°F (-40°C~60°C)
Storage Temperature		-4°F~113°F (-20°C~45°C)	-4°F~113°F (-20°C~45°C)
Installation Suggest			
Recommended Installation Height		5~8m	5~8m
Recommended Installation Distance		23~35m	23~35m

Physical Dimensions (mm)



AE3CR7030NM / AE3CRH7030LM



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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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AE3CR-A02

