

AE3C (Split Type) Solar Street Light

AE3C series split type consists of an off-grid solar system and LED light head separately and satisfies the needs of complicated street lightings.

The users can adjust the direction of solar panel and LED light head depends on actual requirements to reach the best energy utilization and lighting effects.

CE | IP66 | IK08

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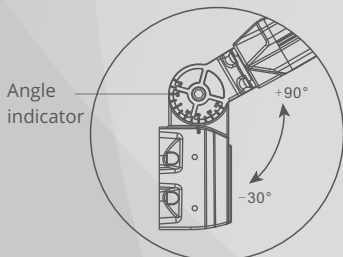
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Solid Product Structure

AE3C adopts modular design with IP66 rated major components and the structural parts are made of high tensile aluminum alloy. Its rational design and high-quality materials make it capable of security, better heat dissipation, waterproof and anti-corrosion to ensure the endurance against harsh environment and prevent from premature failure.



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

IP66 **IK08** **5-year Warranty**



Intelligent Steady State Controller

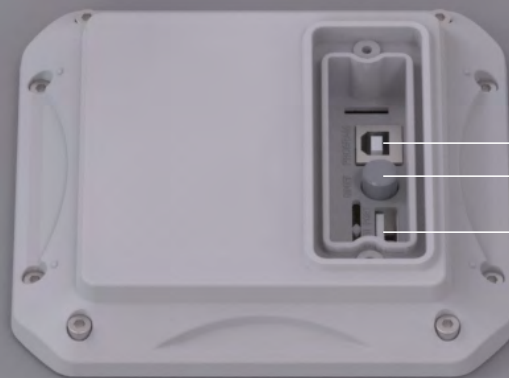
Leveraging its extensive industry experience, Leadsun has independently developed intelligent controllers for solar street lights. The AE steady state controller not only enables smart control of lighting but also offers comprehensive protection for the entire system. Equipped with a waterproof programming connector, a charging connector, and a switch, the controller not only facilitates ease of use but also provides convenience for future maintenance needs.



**Efficient
Controller**

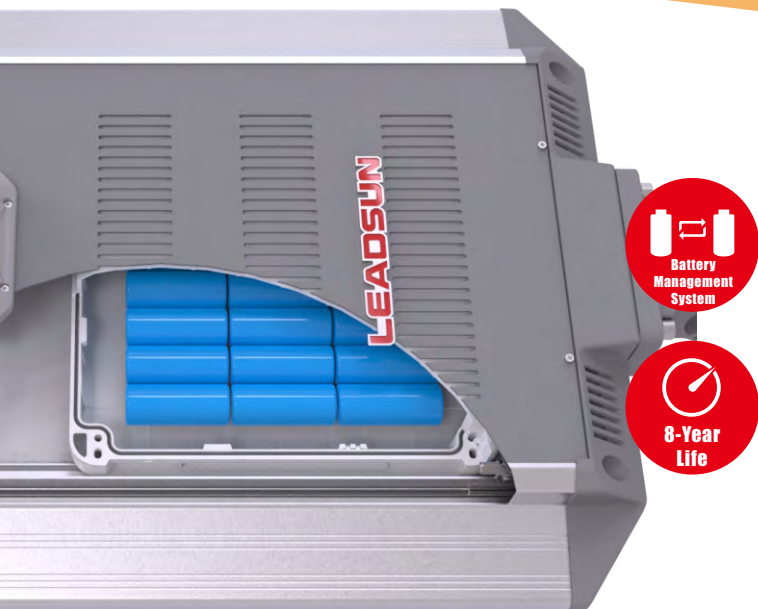


**Stable
Operation**



Type B USB
Female Connector
ON/OFF Button

Type A USB
Female Connector



**Battery
Management
System**

**8-Year
Life**

Battery Management System

The AE series adopts an environmentally friendly LiFePO4 battery that does not contain any harmful metal ingredients. The depth of discharge has been increased from 60% to 90% and the cycle life is 5 times that of lead-acid battery.

The battery also features an exclusive patented battery management technology that extends its lifespan to over 8 years. This technology ensures that the battery is charged and discharged optimally, preventing overcharging or over-discharging, which can damage the battery. As a result, the AE series offers superior battery life, reliability, and performance, making it an excellent choice for solar street lighting applications.



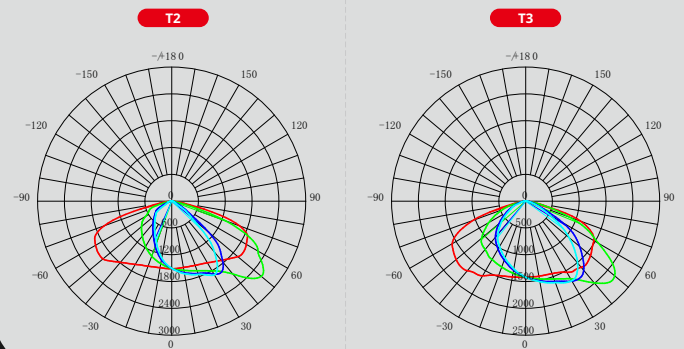
Freedom Classic LED Fixture

The AE series utilizes high-efficiency LEDs, achieving up to 180lm/W luminous efficiency (@25°C). The lights feature a sealing lens made of strong anti-ultraviolet PC, providing anti-aging and anti-impact performance for long-term usage.

With a unique cutoff design, the optic lens eliminates lighting pollution, contributing to environmental preservation.

Bat Wing Light Distribution

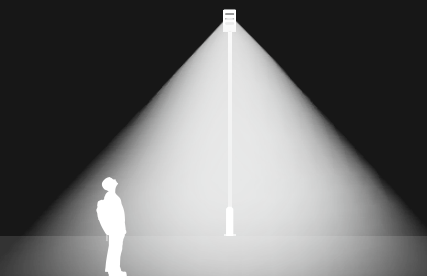
The new lens design of the AE series enhances lighting effect and improves lighting uniformity. This design also extends light coverage, providing more comprehensive illumination.



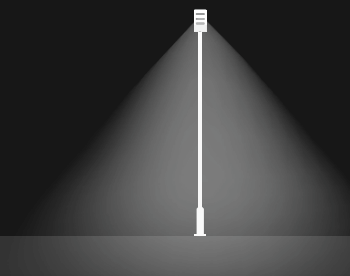
PIR Motion Detection System

PIR motion detection system can automatically regulate the light source from full bright to dim mode to increase battery autonomy.

100% Brightness when motion is detected



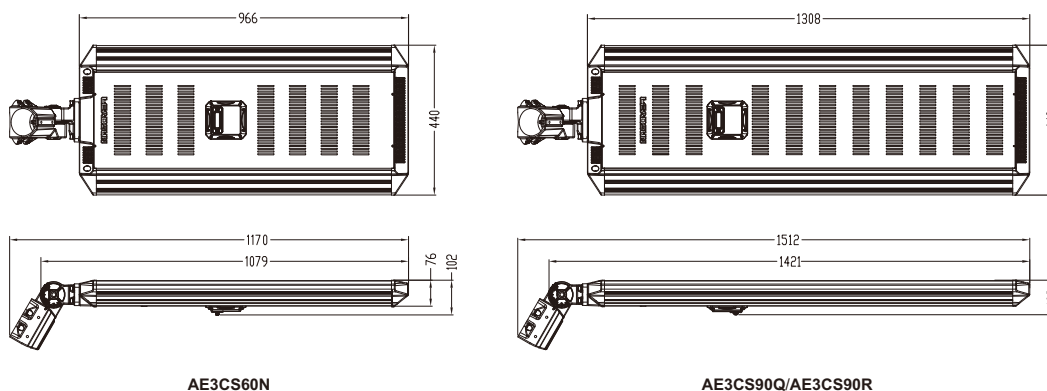
30% Brightness when no motion is detected



AE3C Solar Power Supply System Specifications

Model No.	AE3CS60N	AE3CS90Q	AE3CS90R
Physical Parameters			
Power of PV Module (W)	60	90	90
Lithium Battery Capacity (Ah/Wh)	308	512	615
Net Weight of Product (kg)	14	19	20
Dimension of Product (mm)	1079(L)×440(W)×102(T)	1421(L)×440(W)×102(T)	1421(L)×440(W)×102(T)
Controller Type	Touch-tone controller	Touch-tone controller	Touch-tone controller
Working Mode	100% brightness when motion is detected, 30% brightness when no motion is detected		
Wireless Control Function (Optional)	/	√	√
Light Photosensitivity (lx)	60~90	60~90	60~90
Packing Parameters			
Dimension of Carton (mm)×2 Sets	1170(L)×260(W)×510(T)	1510(L)×260(W)×510(T)	1510(L)×260(W)×510(T)
Gross Weight of Product (kg)	32	42	44
Environment Requirement			
Charge Temperature	0°C~51°C	0°C~51°C	0°C~51°C
Discharge Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C
Storage Temperature (<3 months)	-20°C~45°C	-20°C~45°C	-20°C~45°C
Storage Temperature (3~12 months)	-20°C~25°C	-20°C~25°C	-20°C~25°C
Mounting Recommendation			
EPA (Effective Projected Area) (ft ²)	3.05	3.99	3.99
APA (Actual Projected Area) (ft ²)	2.54	3.33	3.33
Wind Load Rate (mph)	130	130	130
Top of Pole or Tenon OD (mm)	70~76	70~76	70~76

Physical Dimensions (mm)

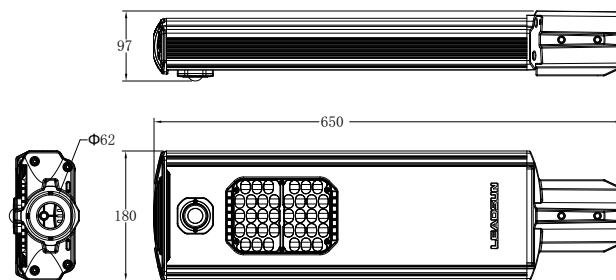


- * The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- * The torque setting for any bolts or screws used to secure the luminaire to the bracket is 14 N/m.
- * Use for outdoors only!

LED Light Head Technical Data Specifications

Model No.	RS12	RS20	RS30	RS40
LED Module Parameters				
Light Output (W)	12	20	30	40
Typical Luminous Flux (lm)	2220	3800	5550	7200
Optional Light Distribution	T2/T3			
Color Temperature (K)	5000K			
Physical Parameters				
Qty. of LED Chips	16	36	36	36
Motion Sensor	PIR or DISS			
Range of input Voltage (V)	22V			
Dimension of Product (mm)	650×180×97			
Net Weight of Product (kg)	3.2			
Storage Temperature	-20°C~45°C			
Packing Parameters				
Dimension of Carton (mm)×2 Sets	680(L)×240(W)×210(T)			
Gross Weight of Product (kg)	8			
Mounting Recommendation				
EPA (Effective Projected Area) (ft ²)	0.57			
APA (Actual Projected Area) (ft ²)	0.47			
Wind Load Rate (mph)	130			
Top of Pole or Tenon OD (mm)	60			
Recommended Installation Height (m)	3~5	4~7	5~8	5~8
Recommended Installation Distance (m)	12-20	15-25	20~30	20~30

Physical Dimensions (mm)



RS12/RS20/RS30/RS40

- * The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
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