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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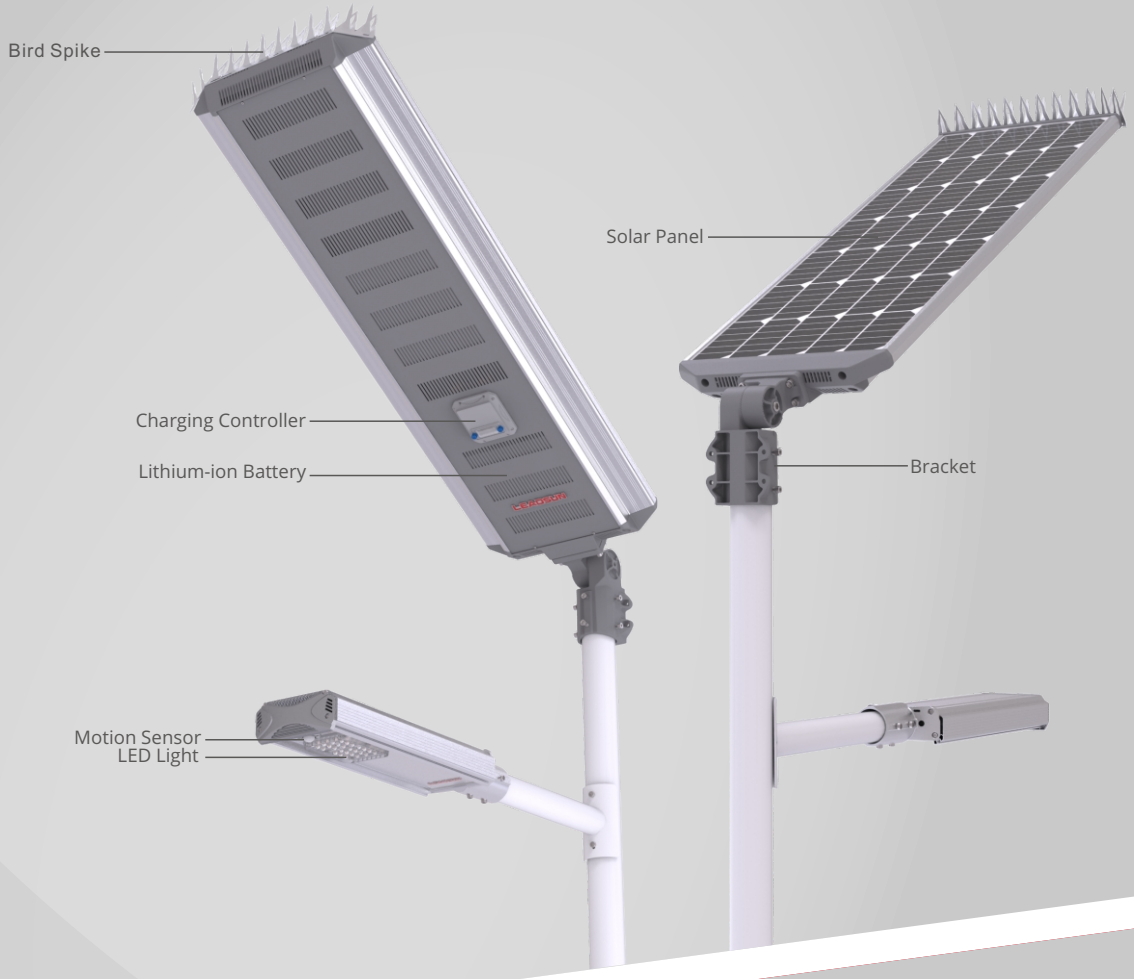
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ida DARK SKY APPROVED by the International Dark-Sky Association darksky.org

Solid Product Structure

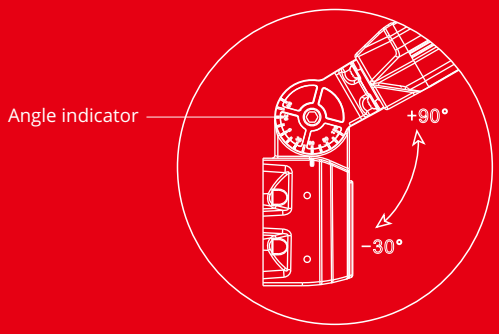
AE3C adopts modular design with IP66 rated major components and the structural parts are made of high tensile aluminum alloy. Its rational design and high-quality materials make it capable of security, better heat dissipation, waterproof and anti-corrosion to ensure the endurance against harsh environment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



IP66

Ik08

5 Years Warranty



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

Appearance Upgrade

Black Bifacial PV Module

Solar Panel Power Upgrade

High Power up to 300W, top 10%~15% higher energy yields with double-sided solar cells

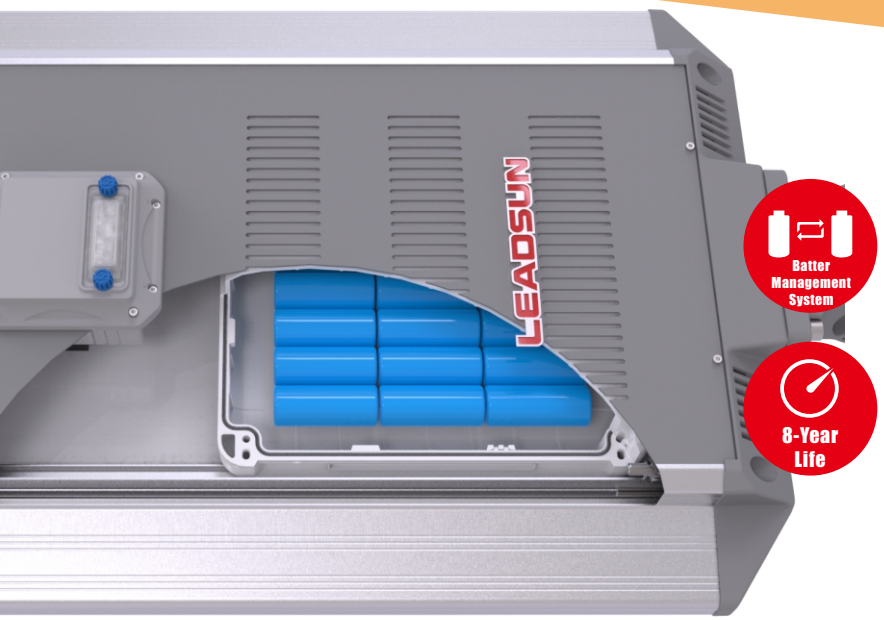
Battery Capacity Upgrade

New battery box to increase battery capacity from 52Ah to 108Ah

Intelligent Steady State Controller

With its rich industry experience, Leadsun has independently developed intelligent controllers for solar street lights. AE steady state controller not only realizes the smart control of lighting, but also provides comprehensive protection for the whole system. The controller comes with waterproof programming connector, charging connector and switch, providing the possibility and convenience for later maintenance.





Battery Management System

Adopted environment-friendly LiFePO4 battery without metal ingredient. The depth of discharge is lifted from 60% up to 90%, 5 times the cycle life.

It combines of the exclusive patented battery management technology, enabling the life span of battery to last for over 8 years.



Freedom Classic LED Fixture

The newly designed Freedom Classic LED fixture with ultra-sharp cut-off optics can significantly reduce lighting glare and eliminates the effects of sky-glow at night. It is offered in a 3000K and fully certified DARK SKY compliant fixture for residential development areas that want to minimise light pollution and obtrusive lighting into residential properties.

IDA Certification requires 3000K CCT or lower and for fixture to be fixed mount at 90°



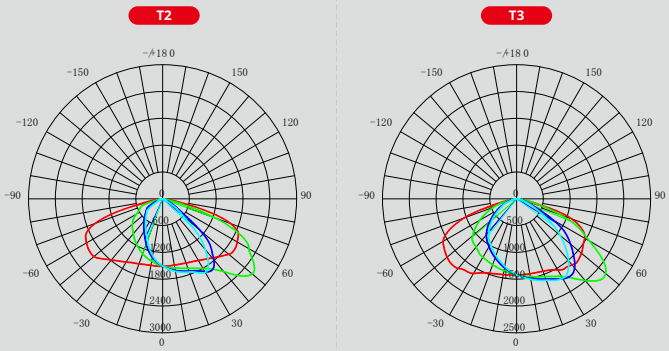
High Efficient LED

Using high-efficiency LED, luminous efficiency is up to 180lm/W (@25 C). The lights sealing lens is made of strong anti-ultraviolet PC, which has anti-aging and anti-impact performance, enabling long term usage.

With the unique cutoff design of the optic lens, allows us to eliminate the lighting pollution to the environment.

Bat Wing Light Distribution

The new lens design improves the lighting effect and lighting uniformity, while also increasing light coverage.



AE3C comes complete with built-in motion detection system that automatically regulate the light source from full bright to dim mode to increase battery autonomy.

100% Brightness when motion is detected

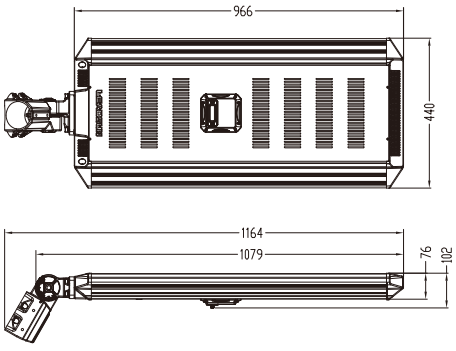
30% Brightness when no motion is detected



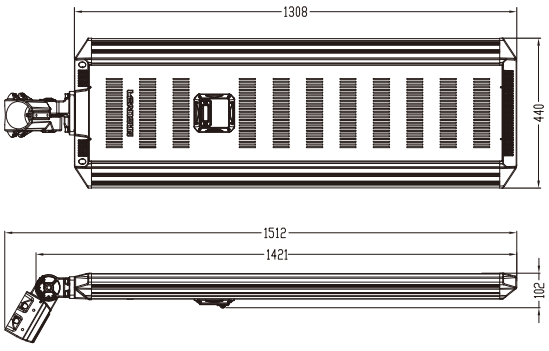
AE3C Solar Power Supply System
Specifications

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)	/	√	√
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~51˚C	-20˚C~51˚C	-20˚C~51˚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)



AE3CS60N



AE3CS90Q/AE3CS90R

* 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!

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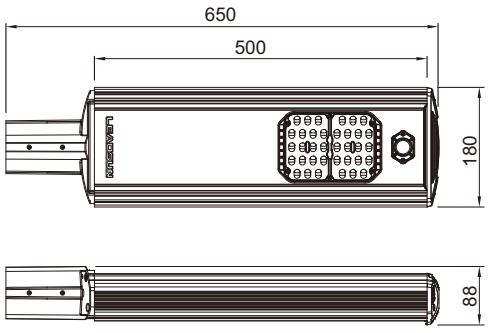
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LED Light Head Technical Data
Specifications

Model No.	RS12	RS20	RS30	RS40
LED Module Parameters				
Light Output (W)	12	20	30	40
Qty. of LED Chips	16	36	36	36
Typical Luminous Flux (lm)	2220	3900	5600	7300
Optional Light Distribution	T2/T3			
Color Temperature (K)	5000K			
Motion Sensor	PIR			
Dimension of Product (mm)	650×180×88			
Net Weight of Product (kg)	4.5			
Working Mode	Controlled by solar engine.			
Storage Temperature	-20℃~45℃			
Packing Parameters				
Dimension of Carton (mm)	680×210×210*(2 Set)			
Gross Weight of Product (kg)	11*(2 Set)			
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.
* The torque setting for any bolts or screws used to secure the luminaire to the bracket is 14 N/m.
* Use for outdoors only!

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