

LEADSUN®
Bright Ideas For An Even Brighter Future.



AE3C (Split Type) Solar Street Light

The AE3C split type solar street light features independently adjustable panels and LED fixtures, enabling dual optimization of sunlight capture and light distribution. Designed to address varying site-specific demands, it allows installers to maximize solar efficiency while directing light precisely to target zones. Its adaptable configuration ensures optimal energy use and lighting performance across non-uniform layouts, making it ideal for projects needing location-tailored solar systems.



Certified by DarkSky.org



AE3C SOLAR STREET LIGHT

Features

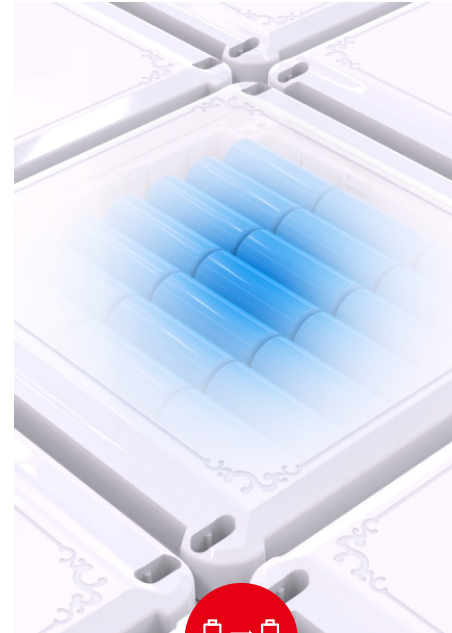


Monocrystalline Solar Module

- **23% Conversion Efficiency** – Maximizes energy output.
- **Advanced Light Harvesting** – Synergistic design with smart controller.
- **Strong Low-Light Performance** – Efficient in all conditions.
- **Reliable and Durable** – Ensures long-term savings.

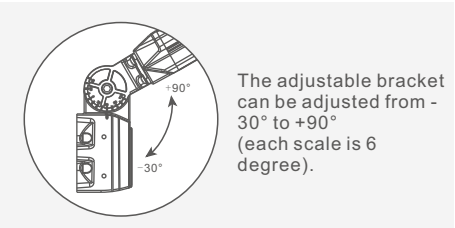
- **Smart Lighting Control** – Enables intelligent control of street lights.
- **Comprehensive System Protection** – Offers full protection for the entire system.
- **High Quality and Performance** – Ensures durability in outdoor environments.
- **Easy Maintenance** – Facilitates future maintenance with user-friendly waterproof ports.

Smart Controller



Dual Batteries

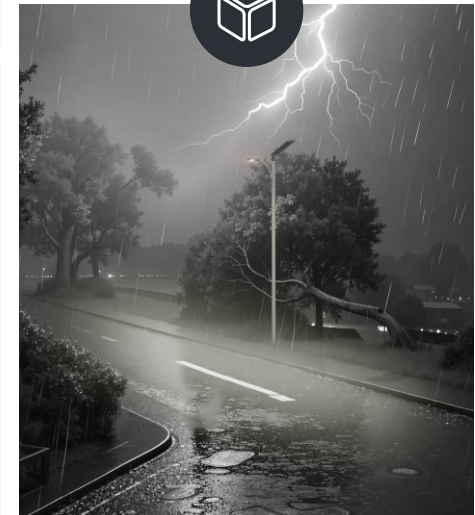
- **Environmentally Friendly LiFePO4 Battery** – No harmful metals used.
- **Patented Shallow Charge&discharge Technology** – **4,000+ cycles**.
- **Comprehensive Protection** – Prevents over-charge, over-discharge and over-temperature.
- **Over 8 Years Lifespan** – Ensures durability and reliable performance.



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

- **Modular Design** – Flexible expansion/maintenance.
- **Corrosion-Resistant** – High-strength aluminum alloy shell and excellent multi-layer surface treatment.
- **IP66/IK08 Rated** – Dust/water/impact resistance.
- **All-Weather Durability** – Withstands rain/snow/storms.

Robust Structure



AE3C SOLAR STREET LIGHT

Features

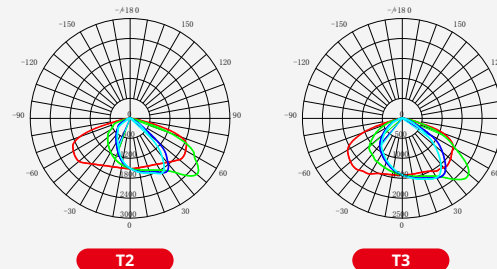
- **High-Efficiency LEDs** – Achieves up to **200lm/W** luminous efficiency (@25°C).
- **Cutoff Design** – Reduces lighting pollution, supporting environmental preservation.
- **Durable Sealing Lens** – Made of anti-ultraviolet PC for anti-aging and impact resistance.
- **Excellent Optics** – Improves lighting uniformity and extends light coverage.

LED Light Source



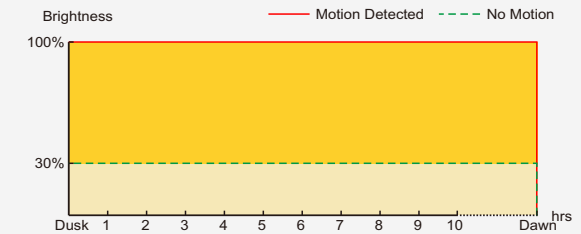
Bat Wing Light Distribution

The optical lenses independently designed and developed by Leadsun enhance lighting uniformity and coverage, greatly improving lighting performance. Users can select different lenses based on the specific lighting requirements of their scene.



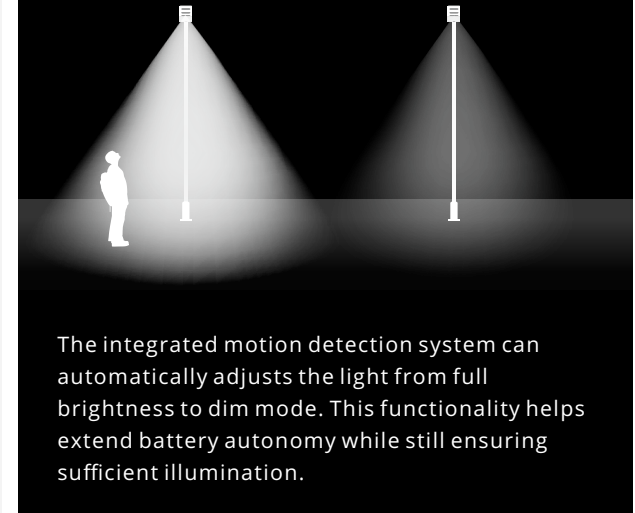
PIR Working Mode

100% brightness for 30s when motion is detected, 30% brightness when no one is around.



100% Brightness
when motion is detected

30% Brightness
when no motion is detected

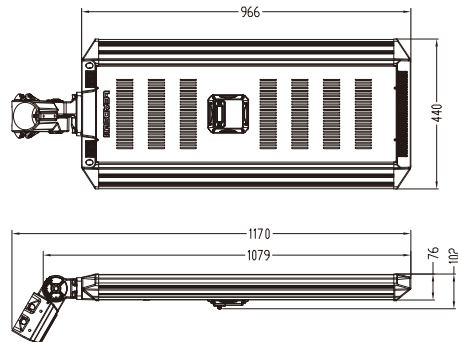



The integrated motion detection system can automatically adjust the light from full brightness to dim mode. This functionality helps extend battery autonomy while still ensuring sufficient illumination.


AE3C SOLAR STREET LIGHT





Physical Dimensions (mm):



- 

Monocrystalline
Solar Panel
- 

Efficient
Controller
- 

LiFePO4 Li-ion
Battery
- 

Robust
Structure

Certificates	CE/IP66/IK08
Warranty (years)	5

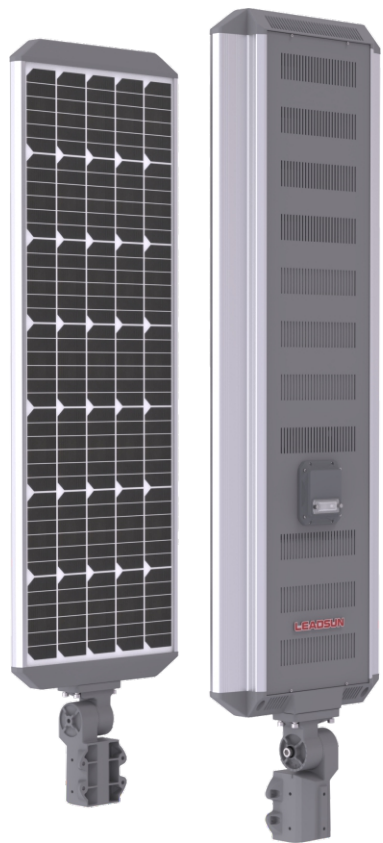
The light source contained in this luminaire shall only be replaced by the manufacturer, its service agent or a qualified person.
The torque for any bolt or screw used to secure the light fixture to the bracket should be set to 14 N·m.
Use for outdoors only.

Solar Power Supply System

PARAMETERS

Model No.	AE3CS60N
Physical Parameters	
Power of PV Module (W)	60
Lithium Battery Capacity (Wh)	308
Net Weight of Product (kg)	17
Dimension of Product (mm)	1079(L)×440(W)×102(T)
Controller Type	Touch-tone controller
Wireless Control Function (Optional)	/
Light Photosensitivity (lx)	60~90
Packing Parameters	
Dimension of Carton (mm)×2 Sets	1170(L)×260(W)×510(T)
Gross Weight of Product (kg)	37
Environment Requirement	
Charge Temperature	0℃~51℃
Discharge Temperature	-20℃~60℃
Storage Temperature (<3 months)	-20℃~45℃
Storage Temperature (3~12 months)	-20℃~25℃
Mounting Recommendation	
EPA (Effective Projected Area) (ft²)	3.05(30°)
APA (Actual Projected Area) (ft²)	2.54(30°)
Wind Load Rate (mph)	130
Top of Pole or Tenon OD (mm)	70~76

AE3C SOLAR STREET LIGHT



Monocrystalline
Solar Panel



Efficient
Controller

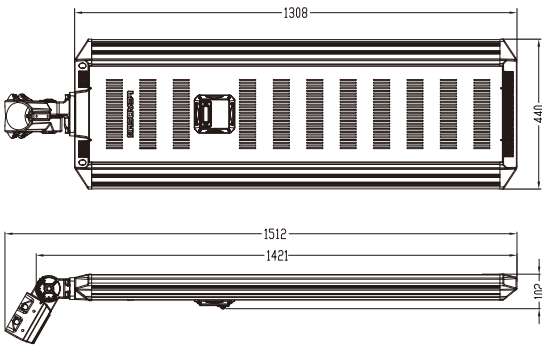


LiFePO4 Li-ion
Battery



Robust
Structure

Physical Dimensions (mm):



Certificates	CE/IP66/IK08
Warranty (years)	5

- * The light source contained in this luminaire shall only be replaced by the manufacturer, its service agent or a qualified person.
- * The torque for any bolt or screw used to secure the light fixture to the bracket should be set to 14 N·m.
- * Use for outdoors only.

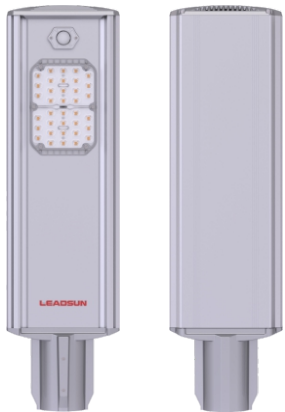
Solar Power Supply System

PARAMETERS

Model No.	AE3CS90Q	AE3CS90R
Physical Parameters		
Power of PV Module (W)	90	90
Lithium Battery Capacity (Wh)	512	615
Net Weight of Product (kg)	21	21.5
Dimension of Product (mm)	1421(L)×440(W)×102(T)	1421(L)×440(W)×102(T)
Controller Type	Touch-tone controller	Touch-tone controller
Wireless Control Function (Optional)	√	√
Light Photosensitivity (lx)	60~90	60~90
Packing Parameters		
Dimension of Carton (mm)×2 Sets	1510(L)×260(W)×510(T)	1510(L)×260(W)×510(T)
Gross Weight of Product (kg)	47	48
Environment Requirement		
Charge Temperature	0℃~51℃	0℃~51℃
Discharge Temperature	-20℃~60℃	-20℃~60℃
Storage Temperature (<3 months)	-20℃~45℃	-20℃~45℃
Storage Temperature (3~12 months)	-20℃~25℃	-20℃~25℃
Mounting Recommendation		
EPA (Effective Projected Area) (ft²)	3.99(30°)	3.99(30°)
APA (Actual Projected Area) (ft²)	3.33(30°)	3.33(30°)
Wind Load Rate (mph)	130	130
Top of Pole or Tenon OD (mm)	70~76	70~76

LED Luminaire

PARAMETERS



Motion
Sensor

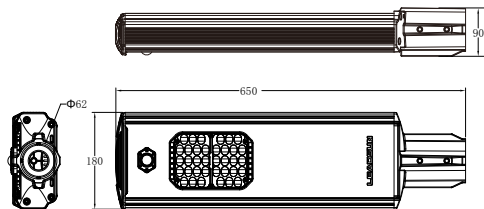


Superior
Outdoor LED



Robust
Structure

Physical Dimensions (mm):



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)	650×180×90			
Net Weight of Product (kg)	3.2			
Storage Temperature	-20℃~45℃			
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) (ft²)	0.57			
APA (Actual Projected Area) (ft²)	0.47			
Wind Load Rate (mph)	160			
Top of Pole or Tenon OD (mm)	60			
Installation Height (m)	3~5	4~7	5~8	5~8
Installation Distance (m)	12-20	15-25	20~30	20~30

Certificates	CE/IP66/IK08
Warranty (years)	5

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