

**LEADSUN®**  
Bright Ideas For An Even Brighter Future.



# AE5 ULTRON Version Solar Street Light

The ULTRON series is a classic masterpiece from Leadsun, combining a dual-sided solar module with a highly powerful light source. Celebrated as a flagship product, this series incorporates advanced technology, high-performance PV modules, durable LiFePO4 batteries, and an intelligent controller, all within a sleek, space-efficient design. The all-in-one AE5 ULTRON version features adjustable LED tubes, allowing for versatile lighting angles. This innovation not only optimizes performance and efficiency but also simplifies installation, providing a seamless user experience.





# AE5 SERIES SOLAR STREET LIGHT

## Features

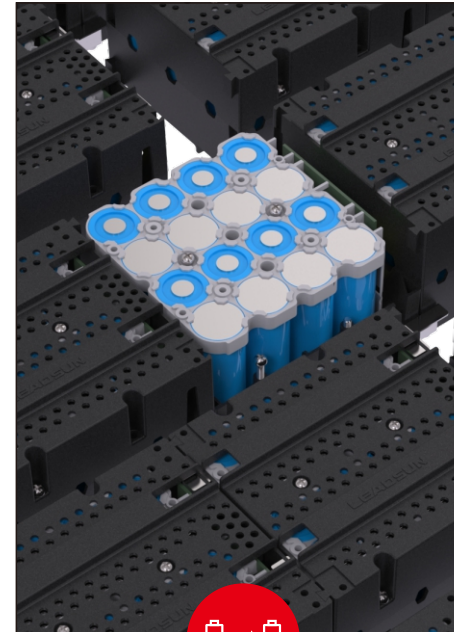
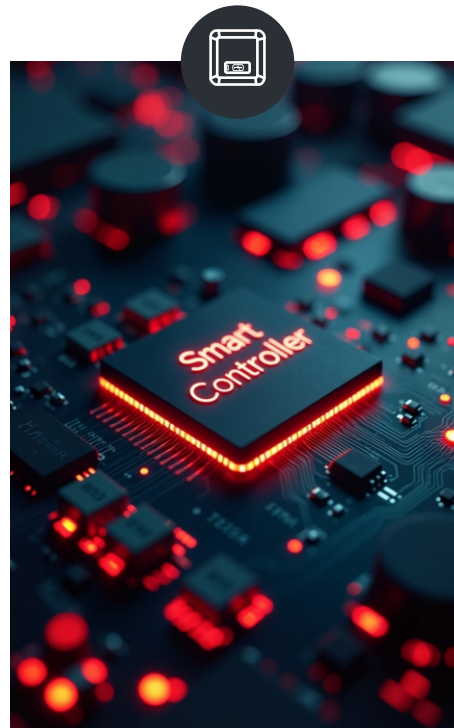


### Monocrystalline Solar Module

- **23% Conversion Efficiency** – Maximizes energy output.
- **Dual-Sided Capture** – Enhances energy harvesting.
- **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

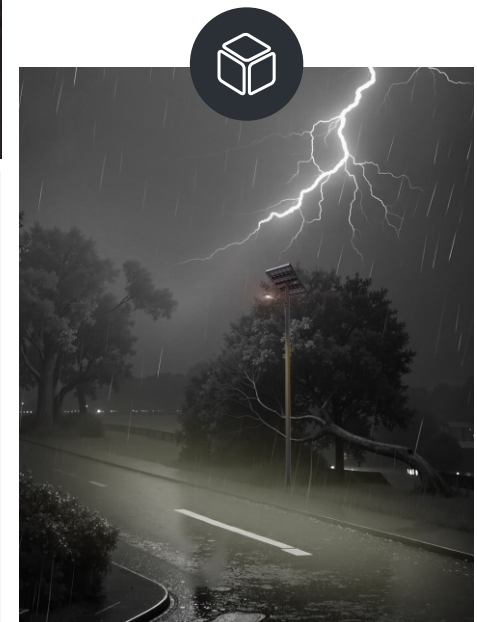


### Dual Batteries

- **Environmentally Friendly LiFePO4 Battery** – No harmful metals used.
- **Patented Shallow Charge&discharge Technology** – **4,000+ cycles**.
- **Independent Protection for Each Cell Module** – Provides overcharge, over-discharge, and over-temperature protections.
- **Over 8 Years Lifespan** – Ensures durability and reliable performance.

- **Modular Architecture** - Supports flexible expansion and maintenance for adaptable system configurations.
- **Corrosion-Resistant Materials** - Features anti-corrosive aluminum alloy housing and toughened stainless steel components to enhance resistance to environmental corrosion.
- **High Protection Ratings** - Boasts **IP66** dust/water resistance **+IK08** impact-resistant covers for extreme weather and physical durability.
- **All-Weather Durability** - Ensures reliable performance in rain, snow, storms, and other harsh conditions through optimized structural design.

### Robust Structure



# AE5 SERIES 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



### 120° Adjustable Angle

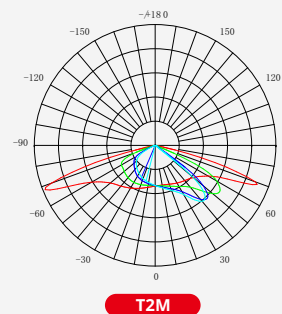
**Adjustable Angle Design** – Enables illumination on both side.

**Enhanced Road Visibility** – Reduces dead angles, improving road safety.

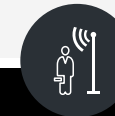
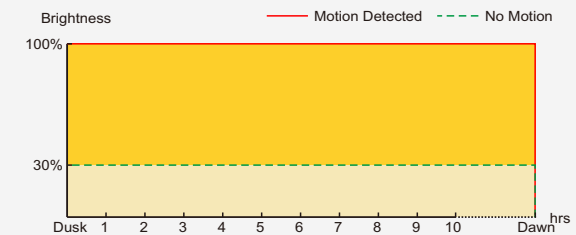


### Bat Wing Light Distribution

The new lens design of the AE5 series enhances lighting effect and improves lighting uniformity. This design also extends light coverage, providing more comprehensive illumination.

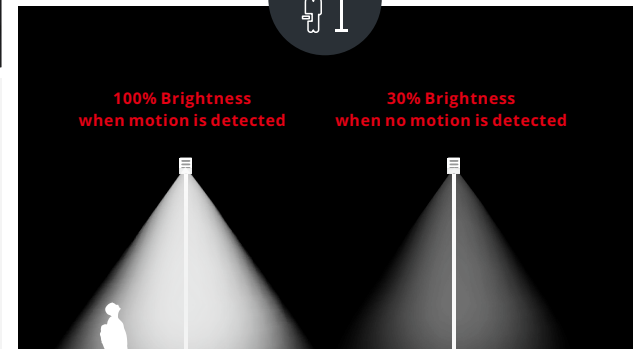


### PIR Working Mode



100% Brightness  
when motion is detected

30% Brightness  
when no motion is detected

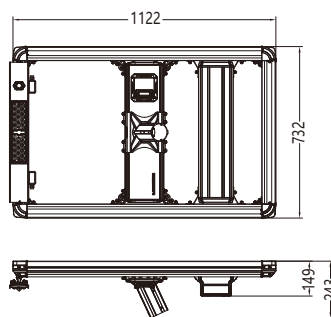


The integrated motion detection system can automatically adjust the light from full brightness to dim mode. This functionality helps extend battery autonomy while still ensuring sufficient illumination.

# AE5 SERIES SOLAR STREET LIGHT



## Physical Dimensions (mm):



Monocrystalline  
Solar Panel



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



Superior  
Outdoor LED



Robust  
Structure

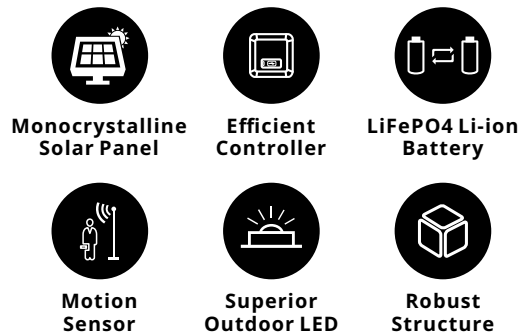
- \* The light source contained in this luminaire shall only be replaced by the manufacturer, its service agent or a qualified person.
- \* The torque for any bolt or screw used to secure the light fixture to the bracket should be set to 14 N·m.
- \* Use for outdoors only.

# PARAMETERS

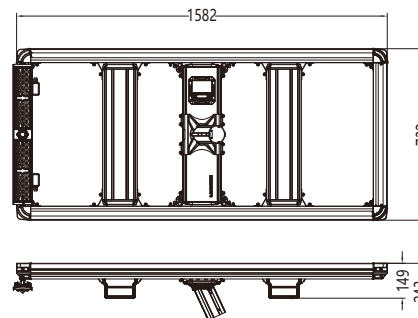
Model No.		AE5S150V12B64L40	
Physical Parameters			
Power of PV Module (W)		150	
Lithium Battery Capacity (Ah/Wh)		64Ah (820Wh)	
Qty. of LED Chips (pcs)		1×28	
PIR Sensor		√	
Net Weight of Product (kg)		28	
Dimension of Product (mm)		1122(L)×732(W)×149(T)	
Wireless Control Function (Optional)		√	
Light Parameters			
Light Output (W)		1×40	
Optional Distribution		T2M	
Visual Angle		140°×70°	
Color Temperature (K)		3000/4000/5000	
Typical Luminous Flux (lm)		7200	
Battery Backup Time (days)		2~3	
Light Photosensitivity (lx)		60~90	
Packing Parameters			
Main Package	Carton Size (mm)	1178(L)×195(W)×828(T)	
	Gross Weight (kg)	31	
Extra Package (for Bracket)	Carton Size (mm)	215×170×235	
	Gross Weight (kg)	3	
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) (ft <sup>2</sup> )		4.49(25°)	
APA (Actual Projected Area) (ft <sup>2</sup> )		3.74(25°)	
Wind Load Rate (mph)		130	
Maximum Bracket Inner Diameter (mm)		90	
Top of Pole or Tenon OD (mm)		80~89	
Installation Height (m)		5~8	
Installation Distance (m)		20~30	
Certificates		CE/IP66/IK08	
Warranty (years)		5	



# AE5 SERIES SOLAR STREET LIGHT



## Physical Dimensions (mm):



- \* 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.

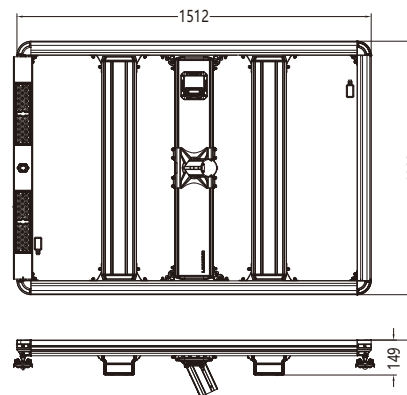
# PARAMETERS

Model No.		AE5S200V12B96L60
Physical Parameters		
Power of PV Module (W)		200
Lithium Battery Capacity (Ah/Wh)		96Ah (1229Wh)
Qty. of LED Chips (pcs)		2×28
PIR Sensor		√
Net Weight of Product (kg)		39
Dimension of Product (mm)		1582(L)×732(W)×149(T)
Wireless Control Function (Optional)		√
Light Parameters		
Light Output (W)		2×30
Optional Distribution		T2M
Visual Angle		140°×70°
Color Temperature (K)		3000/4000/5000
Typical Luminous Flux (lm)		11400
Battery Backup Time (days)		2~3
Light Photosensitivity (lx)		60~90
Packing Parameters		
Main Package	Carton Size (mm)	1638(L)×195(W)×828(T)
	Gross Weight (kg)	43
Extra Package (for Bracket)	Carton Size (mm)	215×170×235
	Gross Weight (kg)	3
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)		6.33(25°)
APA (actual projected area) (ft²)		5.28(25°)
Wind Load Rate (mph)		130
Maximum Bracket Inner Diameter (mm)		90
Top of Pole or Tenon OD (mm)		80~89
Installation Height (m)		7~10
Installation Distance (m)		30~45
Certificates		CE/IP66/IK08
Warranty (years)		5

# AE5 SERIES SOLAR STREET LIGHT



## Physical Dimensions (mm):



- \* 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.

# PARAMETERS

Model No.		AE5S300V12B96L80
Physical Parameters		
Power of PV Module (W)		300
Lithium Battery Capacity (Ah/Wh)		96Ah (1229Wh)
Qty. of LED Chips (pcs)		2×28
PIR Sensor		√
Net Weight of Product (kg)		46
Dimension of Product (mm)		1512(L)×1082(W)×149(T)
Wireless Control Function (Optional)		√
Light Parameters		
Light Output (W)		2×40
Optional Distribution		T2M
Visual Angle		140°×70°
Color Temperature (K)		3000/4000/5000
Typical Luminous Flux (lm)		14400
Battery Backup Time (days)		2~3
Light Photosensitivity (lx)		60~90
Packing Parameters		
Main Package	Carton Size (mm)	1580(L)×195(W)×1165(T)
	Gross Weight (kg)	50
Extra Package (for Bracket)	Carton Size (mm)	215×170×235
	Gross Weight (kg)	3
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)		8.86(25°)
APA (actual projected area) (ft²)		7.38(25°)
Wind Load Rate (mph)		130
Maximum Bracket Inner Diameter (mm)		90
Top of Pole or Tenon OD (mm)		80~89
Installation Height (m)		8~12
Installation Distance (m)		35~45
Certificates		CE/IP66/IK08
Warranty (years)		5



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Solar Panel



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



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Structure