

AE5 ULTRON Version Solar Street Light

The ULTRON series represents Leadsun's latest lighting system, featuring a double-sided solar module and an exceptionally powerful light. This offering is hailed as a masterpiece from Leadsun.

Leadsun integrates cutting-edge technology, highly efficient PV modules, powerful LiFePO4 batteries, and a smart controller into a sleek and compact design. The all-in-one designed AE5 ULTRON version is equipped with adjustable LED tubes to achieve various lighting angles. This not only enhances product performance and efficiency but also simplifies installation and improves user experience.

CE | IP66 | IK08

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Rock Solid Mechanical Structure

The ULTRON series is equipped with a modular design, anti-corrosive aluminum alloy shell, toughened stainless steel components, and IP66 and IK08 rated covers, ensuring exceptional durability and robustness. This design allows it to withstand various environmental challenges, including rain, snow, and storms, making the AE5 ULTRON version a reliable choice for all weather conditions.

IP66

IK08

5-year Warranty



Enhanced Power and Design Integration

The AE5 ULTRON version builds upon the success of its predecessor, the AE5 series, and introduces several improvements.

With a focus on innovation and enhancing user experience, the AE5 incorporates bifacial monocrystalline solar panels to maximize solar energy utilization. Unlike traditional one-sided poly or mono solar panels, the bifacial design allows for power generation from both the front and back sides, thereby increasing the overall utilization of solar cells. This higher power generation efficiency contributes to extended working hours for the lighting system, enhancing its performance and functionality.

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

Type A USB
Female Connector

ON/OFF Button

Battery Management System

The ULTRON 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 ULTRON series offers superior battery life, reliability, and performance, making it an excellent choice for solar street lighting applications.



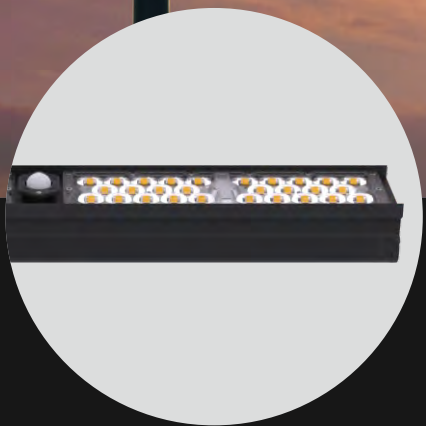
**Battery
Management
System**



**8-Year
Life**

Adjustable Angle of 120°

The light source module of the AE5 series features an adjustable angle design, enabling illumination on both sides and distant areas of the road. This wider view of the road enhances visibility and reduces dead angles, resulting in more convenient and safer driving conditions. This adjustable angle design is not limited to street lighting but also finds applications in urban roads, highways, tunnels, and other areas. It significantly improves road safety and comfort, providing drivers and passengers with a better overall driving experience.



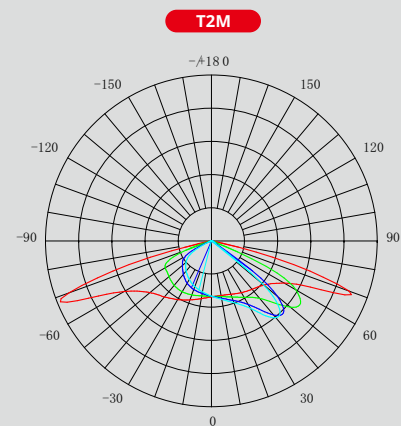
High Efficient LED

The AE5 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

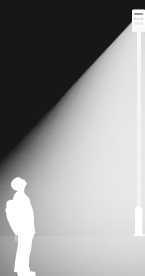
The new lens design of the AE5 series enhances lighting effect and improves lighting uniformity. This design also extends light coverage, providing more comprehensive illumination.



The AE5 comes with a built-in motion detection system that automatically adjusts the light source from full bright to dim mode. This function helps to increase battery autonomy while still providing adequate illumination.

100% Brightness when motion is detected

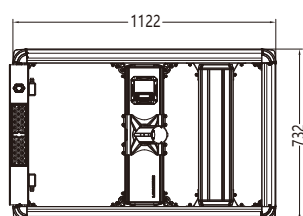
30% Brightness when no motion is detected



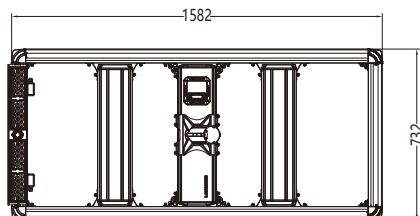
AE5 Solar Street Light Specifications

Model No.	AE5S150V12B64L40	AE5S200V12B96L60	AE5S300V12B96L80	
Physical Parameters				
Power of PV Module (W)	150	200	300	
Lithium Battery Capacity (Ah/Wh)	64Ah (820Wh)	96Ah (1229Wh)	96Ah (1229Wh)	
Qty. of LED Chips (pcs)	1×28	2×28	2×28	
PIR Sensor	✓	✓	✓	
Net Weight of Product (kg)	28	40	48	
Dimension of Product (mm)	1122(L)×732(W)×149(T)	1582(L)×732(W)×149(T)	1512(L)×1082(W)×149(T)	
Wireless Control Function (Optional)	✓	✓	✓	
Light Parameters				
Light Output (W)	1×40	2×30	2×40	
Optional Distribution	T2M	T2M	T2M	
Visual Angle	140°×70°	140°×70°	140°×70°	
Color Temperature (K)	3000/4000/5000	3000/4000/5000	3000/4000/5000	
Typical Luminous Flux (lm)	7200	11400	14400	
Working Mode	First 4 hours, 100% brightness. After the first 4 hours, 100% brightness when motion is detected and 20% brightness when there is no detection.			
Battery Backup Time (days)	2~3	2~3	2~3	
Light Photosensitivity (lx)	60~90	60~90	60~90	
Packing Parameters				
Main Package	Carton Size (mm)	1178(L)×195(W)×828(T)	1638(L)×195(W)×828(T)	1580(L)×195(W)×1165(T)
	Gross Weight (kg)	31	43	52
Extra Package (for Bracket)	Carton Size (mm)	215×170×235	215×170×235	215×170×235
	Gross Weight (kg)	2.6	2.6	2.6
Environment Requirement				
Charge Temperature	0℃~51℃	0℃~51℃	0℃~51℃	
Discharge Temperature	-20℃~60℃	-20℃~60℃	-20℃~60℃	
Storage Temperature (<3 months)	-20℃~45℃	-20℃~45℃	-20℃~45℃	
Storage Temperature (3~12 months)	-20℃~25℃	-20℃~25℃	-20℃~25℃	
Mounting Recommendation				
EPA (effective projected area) (ft²)	4.49	6.33	8.86	
APA (actual projected area) (ft²)	3.74	5.28	7.38	
Wind Load Rate (mph)	160	160	130	
Maximum Bracket Inner Diameter (mm)	90	90	90	
Top of Pole or Tenon OD (mm)	80~89	80~89	80~89	
Installation Height (m)	5~8	7~10	8~12	
Installation Distance (m)	20~30	30~45	35~45	

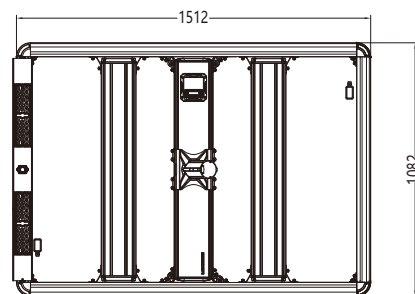
Physical Dimensions (mm)



AE5S150V12B64L40



AE5S200V12B96L60



AE5S300V12B96L80

- * 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!