

AE6 ULTRON Version Solar Street Light

Leadsun integrates cutting-edge technology with highly efficient PV modules, powerful LiFePO4 batteries, and a smart controller into a sleek and compact design for the AE6 ULTRON version. Featuring a separate and flexible cut-off luminaire, the AE6 can be adapted to a variety of lighting angles, thereby improving product performance and efficiency. This design also aims to simplify installation and enhance the 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 AE6 ULTRON version a reliable choice for all weather conditions.

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

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**

Freedom Classic LED Fixture

The AE6 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.

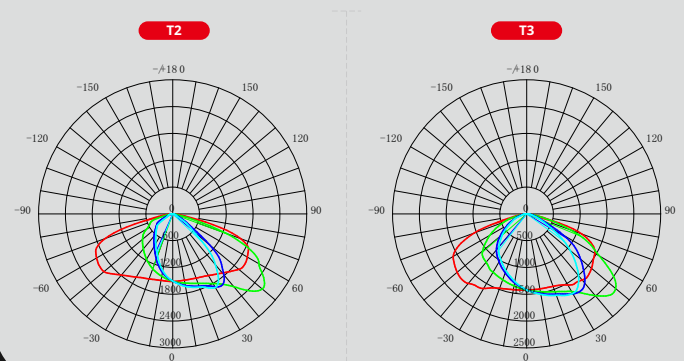
With a unique cutoff design, the optic lens eliminates lighting pollution, contributing to environmental preservation.



Bat Wing Light Distribution

The new lens design of the AE6 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.

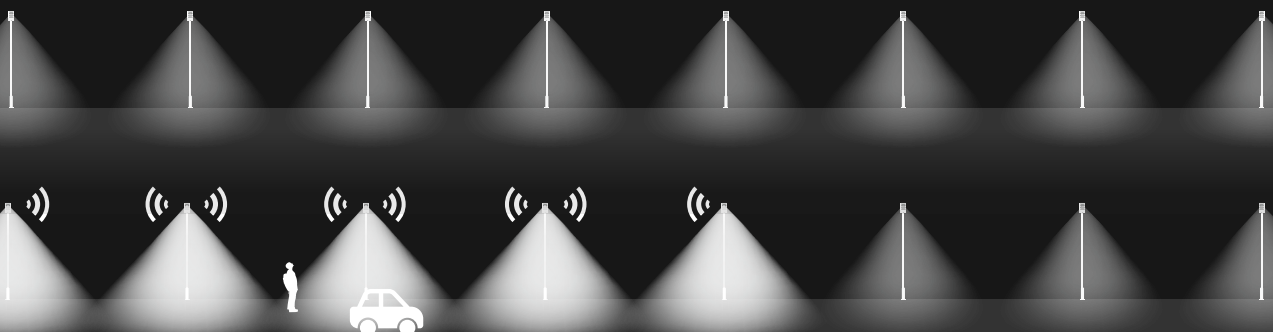
100% Brightness when motion is detected

30% Brightness when no motion is detected



Dynamic Intelligent Sensing System

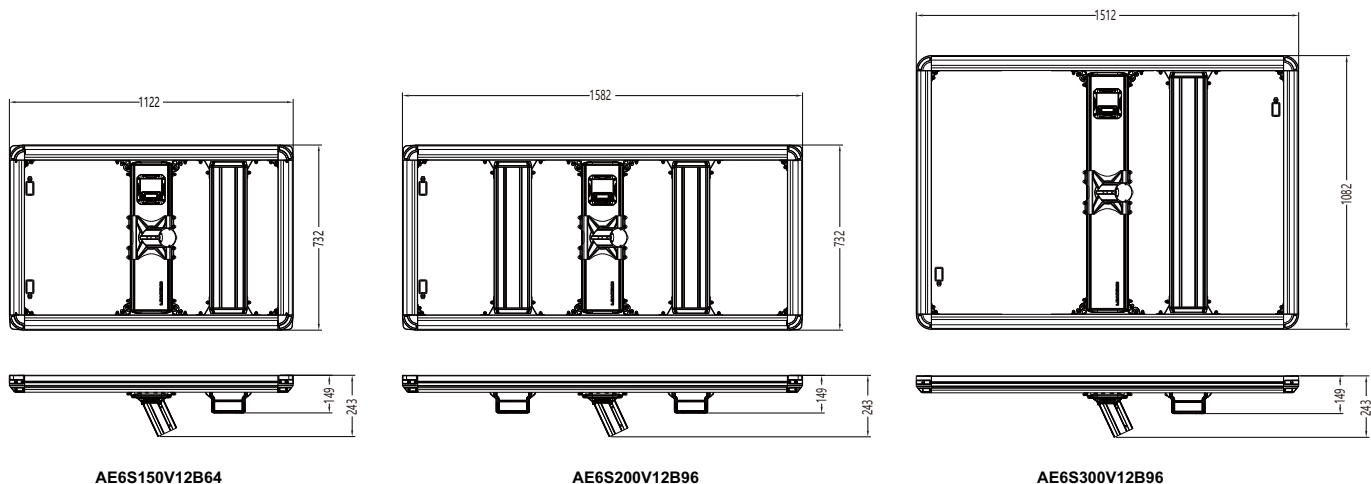
Leadsun has created an autonomous adaptive lighting control system which is achieved by sensing an approaching vehicle or pedestrian using PIR sensors and integrated 24Ghz wireless transmission modules, then switching ON a block of streetlights ahead of the vehicle with higher intensity lighting. As the vehicle passes by, the trailing lights turn dim automatically. When there are no vehicles detected, then all the lights will remain dim.



AE6 Solar Power Supply System Specifications

Model No.		AE6S150V12B64	AE6S200V12B96	AE6S300V12B96
Physical Parameters				
Power of PV Module (W)		150	200	300
Lithium Battery Capacity (Ah/Wh)		64Ah (820Wh)	96Ah (1229Wh)	96Ah (1229Wh)
Net Weight of Product (kg)		26	38	45
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				
Working Mode		100% brightness for 30s when motion is detected, 30% brightness when there is no detection.		
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)	29	41	49
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°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)		4.49	6.33	8.86
APA (Actual Projected Area) (ft ²)		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

Physical Dimensions (mm)

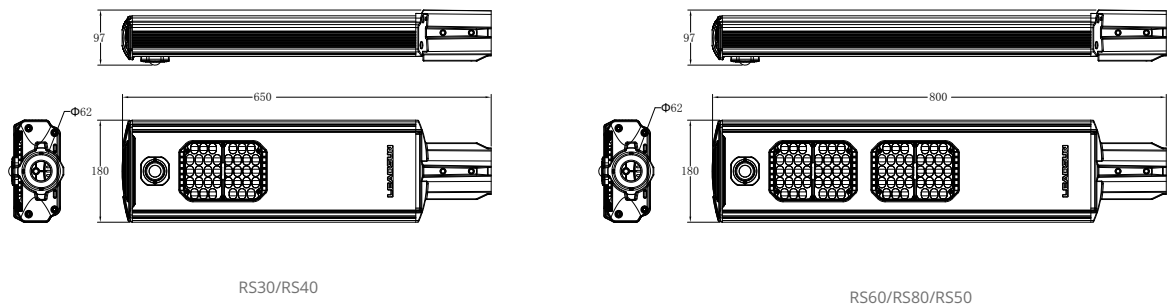


- * The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- * The torque setting for any bolts or screws used to secure the luminaire to the bracket is 14 N/m.
- * Use for outdoors only!

LED Light Head Technical Data Specifications

Model No.	RS30	RS40	RS50	RS60	RS80
LED Module Parameters					
Light Output (W)	30	40	50	60	80
Typical Luminous Flux (lm)	5550	7200	9500	11400	14800
Optional Distribution	T2/T3	T2/T3	T2/T3	T2/T3	T2/T3
Color Temperature (K)	5000K	5000K	5000K	5000K	5000K
Physical Parameters					
Qty. of LED Chips	36	36	2×36	2×36	2×36
Motion Sensor	PIR or DISS	PIR or DISS	PIR or DISS	PIR or DISS	PIR or DISS
Range of input Voltage (V)	22V	22V	22V	22V	22V
Net Weight (kg)	3.2	3.2	4	4	4
Dimension of Product (mm)	650×180×97	650×180×97	800×180×97	800×180×97	800×180×97
Visual Angle	140°×70°	140°×70°	140°×70°	140°×70°	140°×70°
Storage Temperature	-20℃~45℃	-20℃~45℃	-20℃~45℃	-20℃~45℃	-20℃~45℃
Packing Parameters					
Dimension of Carton (mm)*(2 Set)	680×240×210	680×240×210	830×240×210	830×240×210	830×240×210
Gross Weight of Package (kg)*(2 Set)	8	8	10	10	10
Mounting Recommendation					
EPA (Effective Projected Area) (ft²)	0.57	0.57	0.70	0.70	0.70
APA (Actual Projected Area) (ft²)	0.47	0.47	0.58	0.58	0.58
Wind Load Rate (mph)	160	160	160	160	160
Top of Pole or Tenon OD (mm)	60	60	60	60	60
Installation Height (m)	5~8	5~8	7~10	7~10	8~12
Installation Distance (m)	20~30	20~30	25~40	30~45	35~45

Physical Dimensions (mm)



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