

LEADSUN®
Bright Ideas For An Even Brighter Future.



AE6 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 split-configuration AE6 ULTRON version features an adjustable LED luminaire and a separately mounted solar engine, allowing for independent adjustments of their orientations as needed.



Certified by DarkSky.org



AE6 SERIES SOLAR STREET LIGHT

Features

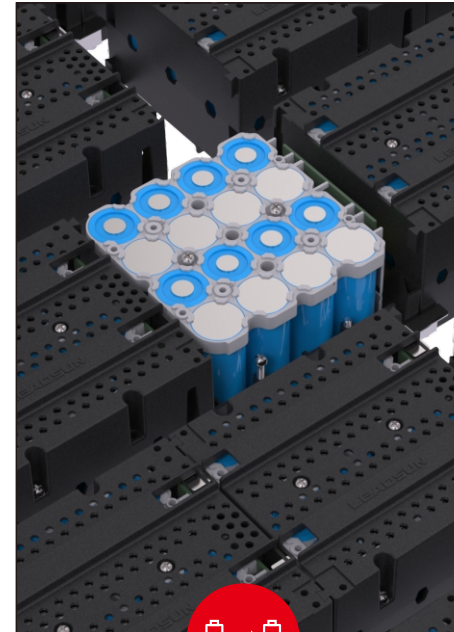
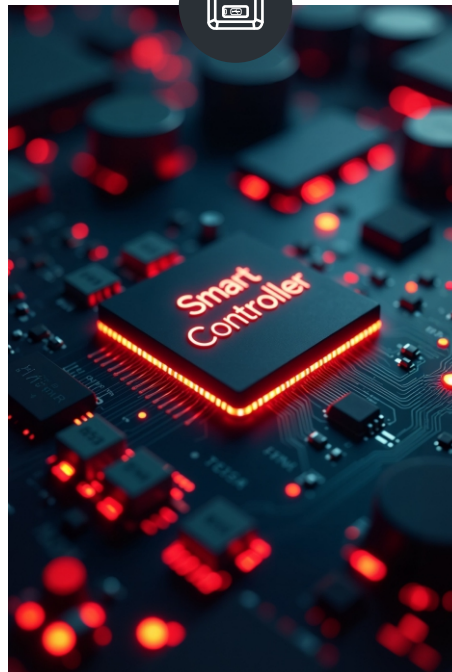


Monocrystalline Solar Module

- **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

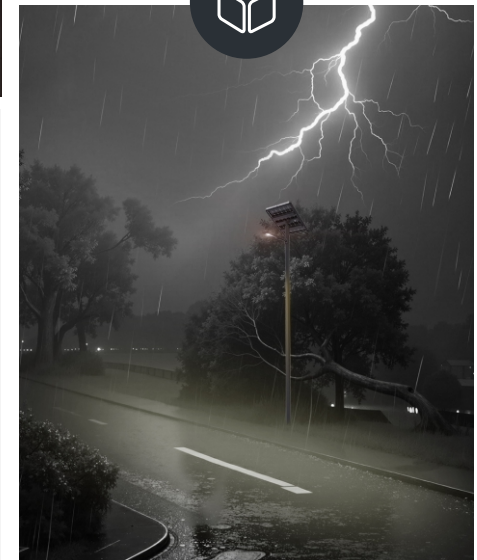


Dual Batteries

- **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



AE6 SERIES SOLAR STREET LIGHT

Features

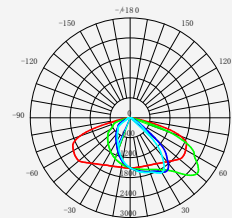
- **High-Efficiency LEDs** – Achieves up to **200lm/W** luminous efficiency (@25°C).
- **Cutoff Design** – Reduces lighting pollution, supporting environmental preservation.
- **Durable Sealing Lens** – Made of anti-ultraviolet PC for anti-aging and impact resistance.
- **Excellent Optics** – Improves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

LED Light Source

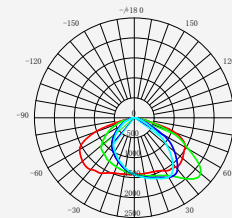


Bat Wing Light Distribution

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.

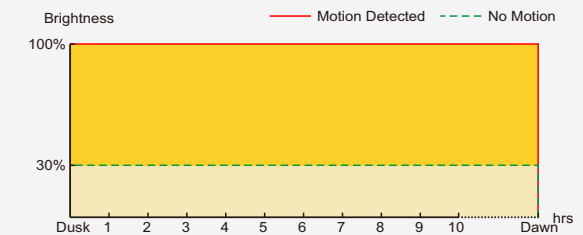


T2



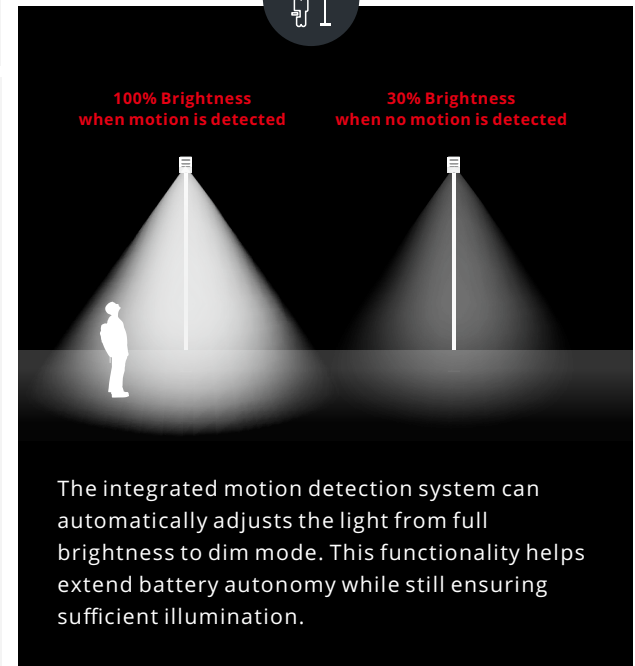
T3

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.

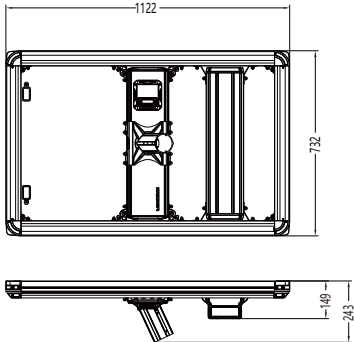
AE6

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.

Solar Power Supply System

PARAMETERS

Model No.		AE6S150V12B64
Physical Parameters		
Power of PV Module (W)		150
Lithium Battery Capacity (Ah/Wh)		64Ah (820Wh)
Net Weight of Product (kg)		26
Dimension of Product (mm)		1122(L)×732(W)×149(T)
Wireless Control Function (Optional)		√
Light Photosensitivity (lx)		60~90
Packing Parameters		
Main Package	Carton Size (mm)	1178(L)×195(W)×828(T)
	Gross Weight (kg)	29
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)		4.49(25°)
APA (Actual Projected Area) (ft²)		3.74(25°)
Wind Load Rate (mph)		130
Maximum Bracket Inner Diameter (mm)		90
Top of Pole or Tenon OD (mm)		80~89

Certificates	CE/IP66/IK08
Warranty (years)	5

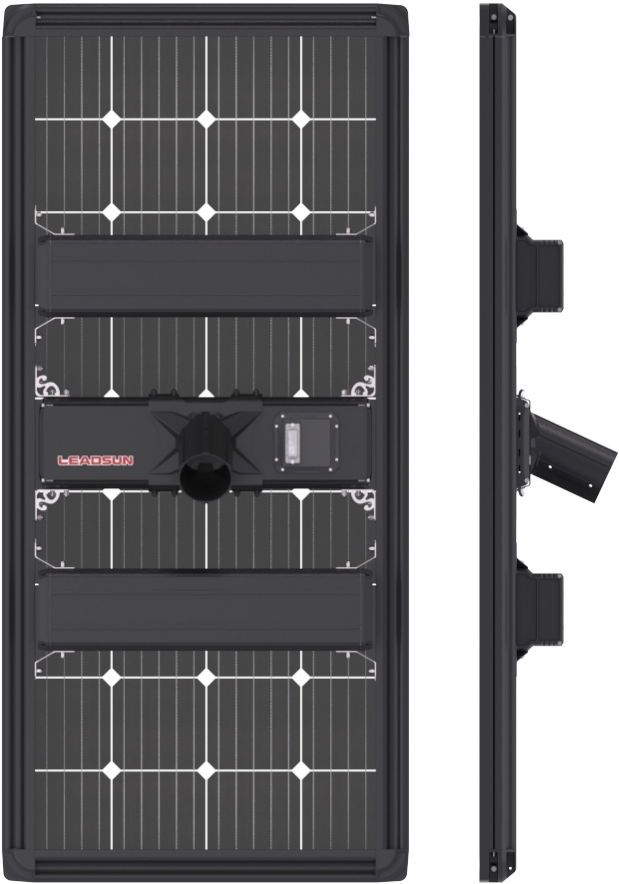
Monocrystalline Solar Panel

Efficient Controller

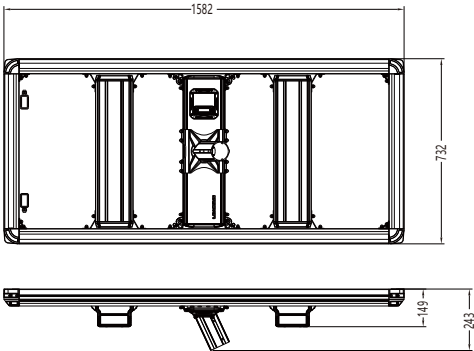
LiFePO4 Li-ion Battery

Robust Structure

AE6 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.


Solar Power Supply System PARAMETERS

Model No.		AE6S200V12B96
Physical Parameters		
Power of PV Module (W)		200
Lithium Battery Capacity (Ah/Wh)		96Ah (1229Wh)
Net Weight of Product (kg)		37
Dimension of Product (mm)		1582(L)×732(W)×149(T)
Wireless Control Function (Optional)		√
Light Photosensitivity (lx)		60~90
Packing Parameters		
Main Package	Carton Size (mm)	1638(L)×195(W)×828(T)
	Gross Weight (kg)	41
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


Certificates	CE/IP66/IK08
Warranty (years)	5




Monocrystalline
Solar Panel



Efficient
Controller



LiFePO4 Li-ion
Battery

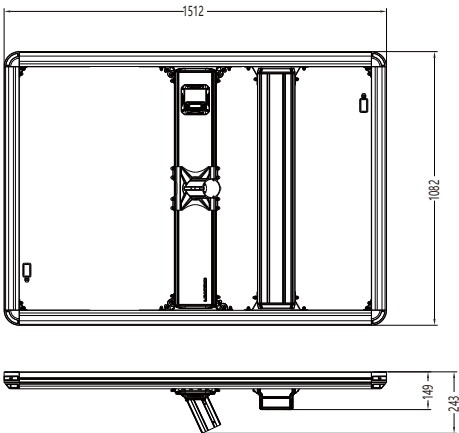


Robust
Structure

AE6 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.
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Solar Power Supply System PARAMETERS

Model No.		AE6S300V12B96
Physical Parameters		
Power of PV Module (W)		300
Lithium Battery Capacity (Ah/Wh)		96Ah (1229Wh)
Net Weight of Product (kg)		43
Dimension of Product (mm)		1512(L)×1082(W)×149(T)
Wireless Control Function (Optional)		√
Light Photosensitivity (lx)		60~90
Packing Parameters		
Main Package	Carton Size (mm)	1580(L)×195(W)×1165(T)
	Gross Weight (kg)	47
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


Certificates	CE/IP66/IK08
Warranty (years)	5




Monocrystalline
Solar Panel



Efficient
Controller



LiFePO4 Li-ion
Battery



Robust
Structure

LED Luminaire

PARAMETERS



Motion
Sensor

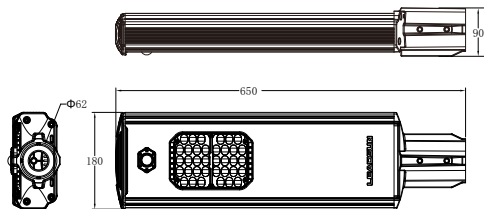


Superior
Outdoor LED



Robust
Structure

Physical Dimensions (mm):



Model No.	RS30	RS40
LED Module Parameters		
Light Output (W)	30	40
Typical Luminous Flux (lm)	5550	7200
Optional Distribution	T2/T3	T2/T3
Color Temperature (K)	5000K	5000K
Physical Parameters		
Qty. of LED Chips	36	36
Motion Sensor	PIR or DISS	PIR or DISS
Range of Input Voltage (V)	22V	22V
Net Weight (kg)	3.2	3.2
Dimension of Product (mm)	650×180×90	650×180×90
Visual Angle	140°×70°	140°×70°
Storage Temperature	-20°C~45°C	-20°C~45°C
Packing Parameters		
Dimension of Carton (mm)*(2 Sets)	680×240×210	680×240×210
Gross Weight of Package (kg)*(2 Sets)	8	8
Mounting Recommendation		
EPA (Effective Projected Area) (ft²)	0.57	0.57
APA (Actual Projected Area) (ft²)	0.47	0.47
Wind Load Rate (mph)	160	160
Top of Pole or Tenon OD (mm)	60	60
Installation Height (m)	5~8	5~8
Installation Distance (m)	20~30	20~30

Certificates	CE/IP66/IK08
Warranty (years)	5

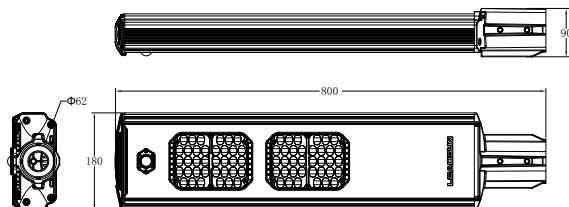
- ★ The light source contained in this luminaire shall only be replaced by the manufacturer, its service agent or a qualified person.
- ★ The torque for any bolt or screw used to secure the light fixture to the bracket should be set to 14 N·m.
- ★ Use for outdoors only.

LED Luminaire

PARAMETERS

Motion
SensorSuperior
Outdoor LEDRobust
Structure

Physical Dimensions (mm):



Model No.	RS50	RS60	RS80
LED Module Parameters			
Light Output (W)	50	60	80
Typical Luminous Flux (lm)	9500	11400	14800
Optional Distribution	T2/T3	T2/T3	T2/T3
Color Temperature (K)	5000K	5000K	5000K
Physical Parameters			
Qty. of LED Chips	2×36	2×36	2×36
Motion Sensor	PIR or DISS	PIR or DISS	PIR or DISS
Range of Input Voltage (V)	22V	22V	22V
Net Weight (kg)	4	4	4
Dimension of Product (mm)	800×180×90	800×180×90	800×180×90
Visual Angle	140°×70°	140°×70°	140°×70°
Storage Temperature	-20°C~45°C	-20°C~45°C	-20°C~45°C
Packing Parameters			
Dimension of Carton (mm)*(2 Sets)	830×240×210	830×240×210	830×240×210
Gross Weight of Package (kg)*(2 Sets)	10	10	10
Mounting Recommendation			
EPA (Effective Projected Area) (ft ²)	0.70	0.70	0.70
APA (Actual Projected Area) (ft ²)	0.58	0.58	0.58
Wind Load Rate (mph)	160	160	160
Top of Pole or Tenon OD (mm)	60	60	60
Installation Height (m)	7~10	7~10	8~12
Installation Distance (m)	25~40	30~45	35~45

Certificates

CE/IP66/IK08

Warranty (years)

5

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* The torque for any bolt or screw used to secure the light fixture to the bracket should be set to 14 N·m.

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