

# AE3C (All In One) Solar Street Light

AE3C All In One series is medium-high power solar street lights using LEADSUN's patented design, integrate all components such as the Mono solar panel, outdoor LED, LiFePO4 battery, intelligent controller and PIR sensor together. Such design makes the installation and maintenance easy, saving the labor and maintenance cost effectively. LEADSUN's exclusive technology and the superior components help achieve its outstanding performance and long lifespan.

CE | IP66 | IK08

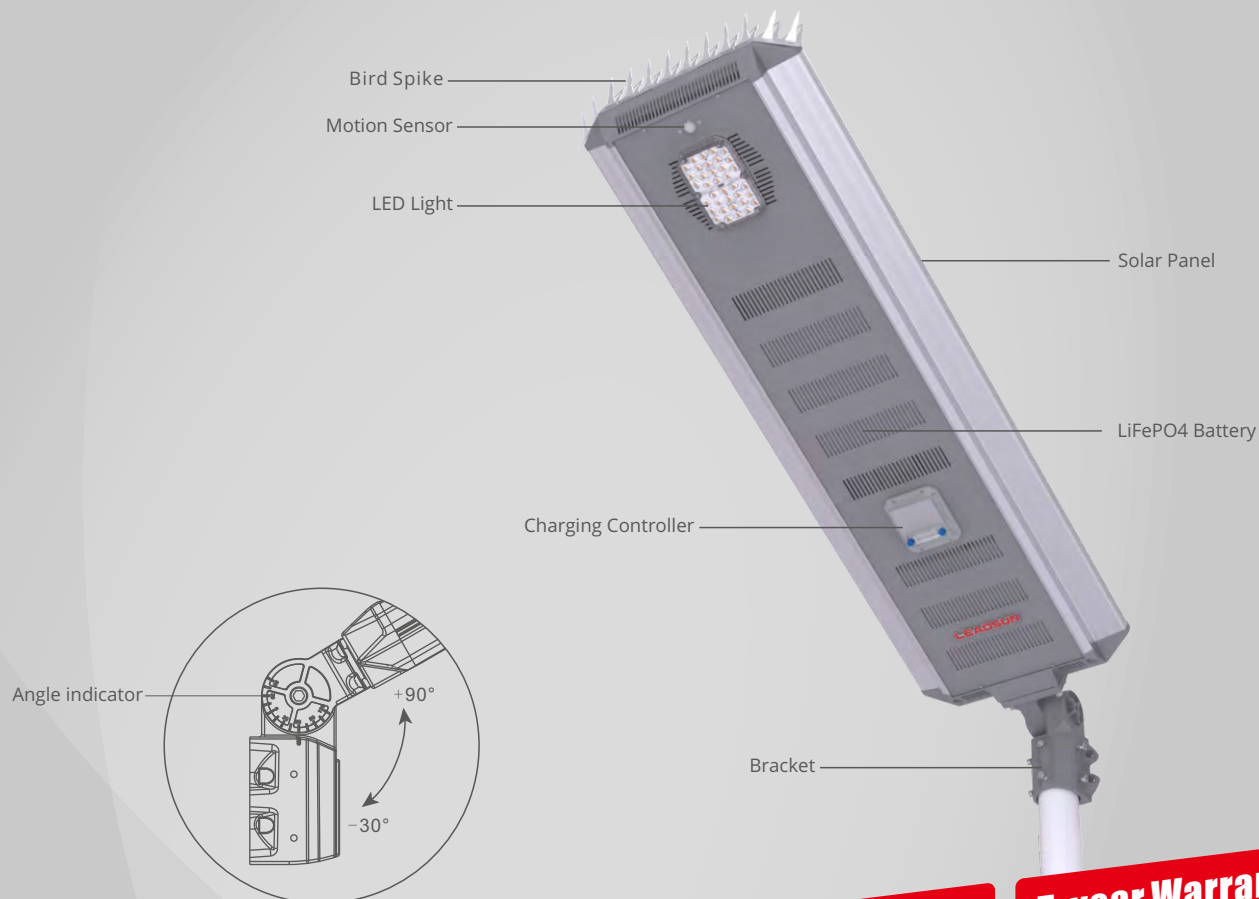
**LEADSUN**<sup>®</sup>  
"Bright Ideas For An Even Brighter Future."

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# Solid Product Structure

AE3C adopts modular design with IP66 rated major components and the structural parts are made of high tensile aluminum alloy. Its rational design and high-quality materials make it capable of security, better heat dissipation, waterproof and anti-corrosion to ensure the endurance against harsh environment and prevent from premature failure.



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

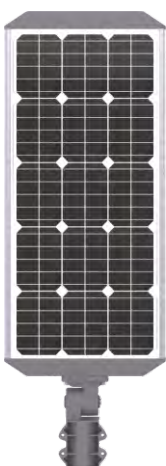
**IP66**

**IK08**

**5-year Warranty**



**60W**



**90W**





# Intelligent Steady State Controller

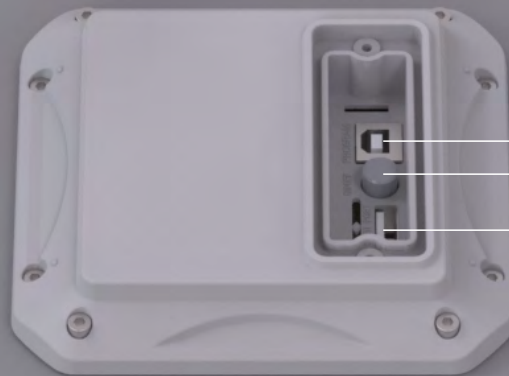
Leveraging its extensive industry experience, Leadsun has independently developed intelligent controllers for solar street lights. The AE steady state controller not only enables smart control of lighting but also offers comprehensive protection for the entire system. Equipped with a waterproof programming 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**

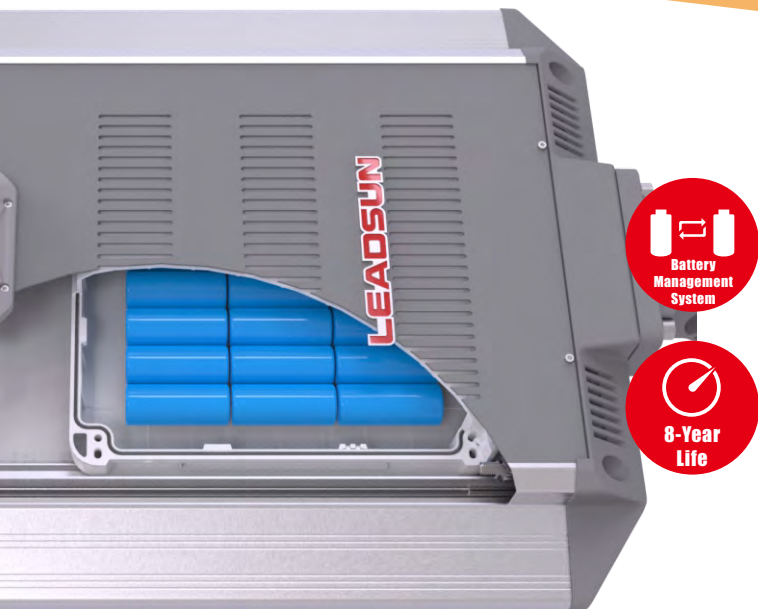


**Stable  
Operation**



Type B USB  
Female Connector  
ON/OFF Button

Type A USB  
Female Connector



**Battery  
Management  
System**

**8-Year  
Life**

## Battery Management System

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



## Brilliant LED Module

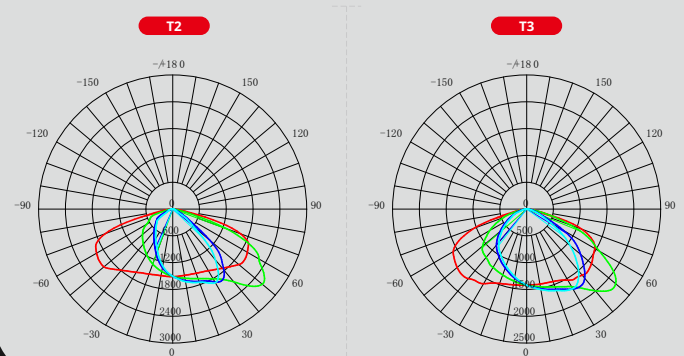
The AE series utilizes high-efficiency LEDs, achieving up to 180lm/W luminous efficiency (@25°C). The lights feature a sealing lens made of strong anti-ultraviolet PC, providing anti-aging and anti-impact performance for long-term usage.

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 AE series enhances lighting effect and improves lighting uniformity.

This design also extends light coverage, providing more comprehensive illumination.

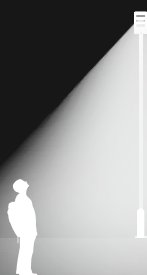


## PIR Motion Detection System

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

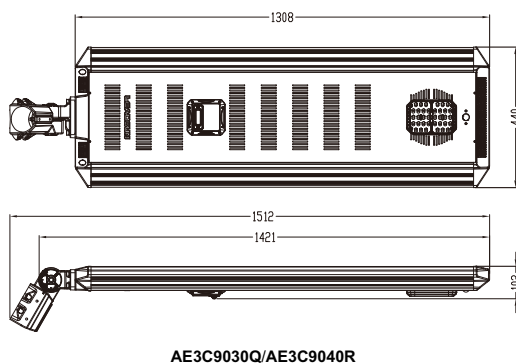
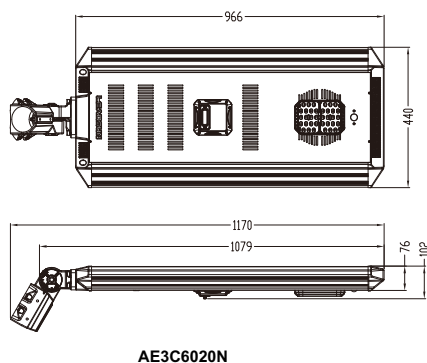
30% Brightness when no motion is detected



# AE3C Solar Street Light Specifications

| Model No.   | AE3C6020N  | AE3C9030Q             | AE3C9040R             |
|---|--|-----------------------|-----------------------|
| <b>Physical Parameters</b>                        |  |                       |                       |
| Power of PV Module (W)                            | 60   | 90                    | 90                    |
| Lithium Battery Capacity (Ah/Wh)                  | 308  | 512                   | 615                   |
| Qty. of LED Chips (pcs)                           | 36   | 36                    | 36                    |
| PIR Sensor  | √  | √                     | √                     |
| Net Weight of Product (kg)                        | 14.5   | 19.5                  | 20.5                  |
| Dimension of Product (mm)                         | 1079(L)×440(W)×102(T)  | 1421(L)×440(W)×102(T) | 1421(L)×440(W)×102(T) |
| Controller Type                                   | Touch-tone controller  | Touch-tone controller | Touch-tone controller |
| Wireless Control Function (Optional)              | /  | √                     | √                     |
| <b>Light Parameters</b>                           |  |                       |                       |
| Light output (W)                                  | 20   | 30                    | 40                    |
| Optical Distribution                              | T2/T3  | T2/T3                 | T2/T3                 |
| Visual Angle                                      | 140°×70°   | 140°×70°              | 140°×70°              |
| Color Temperature (k)                             | 3000/4000/5000   | 3000/4000/5000        | 3000/4000/5000        |
| Typical Luminous Flux (lm)                        | 3800   | 5550                  | 7200                  |
| Working Mode                                      | 100% brightness when motion is detected, 30% brightness when no motion is detected |                       |                       |
| Min. Working Time (hours)                         | Bright Mode  | 13                    | 15                    |
|   | DIM Mode (30%)   | 44                    | 48                    |
| Light Photosensitivity (lx)                       | 60~90  | 60~90                 | 60~90                 |
| <b>Packing Parameters</b>                         |  |                       |                       |
| Dimension of Carton (mm)×2 Sets                   | 1170(L)×260(W)×510(T)  | 1510(L)×260(W)×510(T) | 1510(L)×260(W)×510(T) |
| Gross Weight of Product (kg)                      | 33   | 43                    | 45                    |
| <b>Environment Requirement</b>                    |  |                       |                       |
| 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            |
| <b>Mounting Recommendation</b>                    |  |                       |                       |
| EPA (Effective Projected Area) (ft <sup>2</sup> ) | 3.05   | 3.99                  | 3.99                  |
| APA (Actual Projected Area) (ft <sup>2</sup> )    | 2.54   | 3.33                  | 3.33                  |
| Wind Load Rate (mph)                              | 130  | 130                   | 130                   |
| Top of Pole or Tenon OD (mm)                      | 70~76  | 70~76                 | 70~76                 |
| Installation Height (m)                           | 4~7  | 6~8                   | 6~8                   |
| Installation Distance (m)                         | 15~25  | 25~35                 | 25~35                 |

## 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!