

# LEADSUN<sup>®</sup>

"Bright Ideas For An Even Brighter Future."



CE | IP65 | IK08



## 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.



Monocrystalline  
Solar Module



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



Superior  
Outdoor LED



IP65  
Waterproof



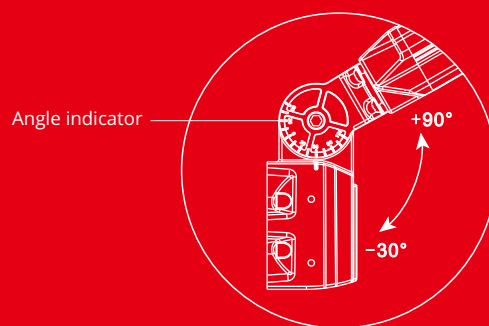
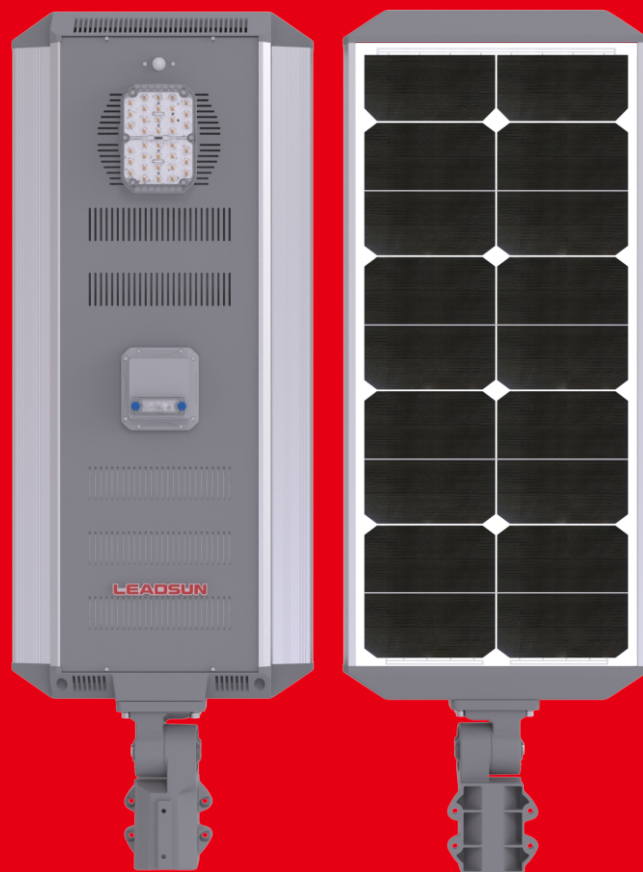
5 Years  
warranty



# All In One Design

The AE3C continue to use All In One design for delivering multiple features such as long life span, minimal maintenance and easy installation.

Even it's larger, but completely flexible, more powerful, and extremely efficient. It creates perfect solution for off grid application.

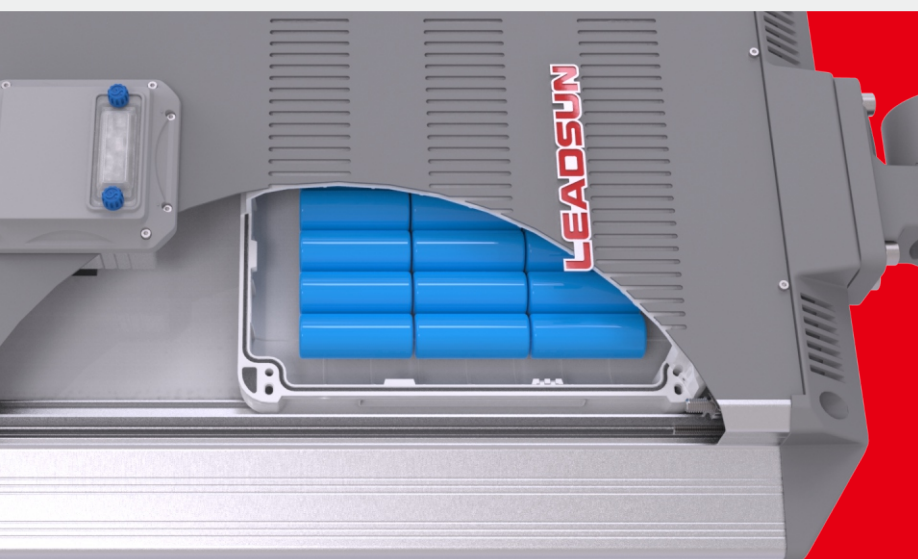


The adjustable bracket can be adjusted from -30° to +90° (each scale is 6 degree).



# Solid Product Structure

AE3C adopts modular design with IP65 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.



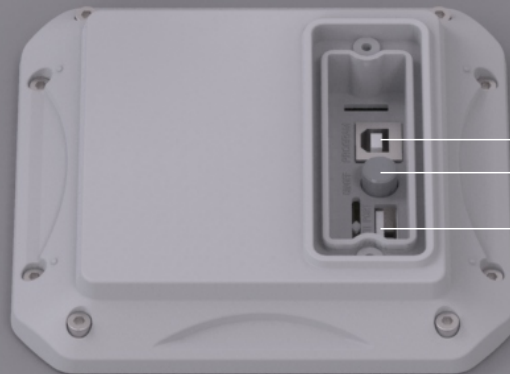
## Battery Management System

Adopted environment-friendly  $\text{LiFePO}_4$  battery without metal ingredient. The depth of discharge is lifted from 60% up to 90%, 5 times the cycle life.

It combines of the exclusive patented battery management technology, enabling the life span of battery to last for over 8 years.

# Intelligent Steady State Controller

With its rich industry experience, Leadsun has independently developed intelligent controllers for solar street lights. AE steady state controller not only realizes the smart control of lighting, but also provides comprehensive protection for the whole system. The controller comes with waterproof programming connector, charging connector and switch, providing the possibility and convenience for later maintenance.



Type B USB  
Female Connector  
ON/OFF Button  
Type A USB  
Female Connector

# High Efficient LED

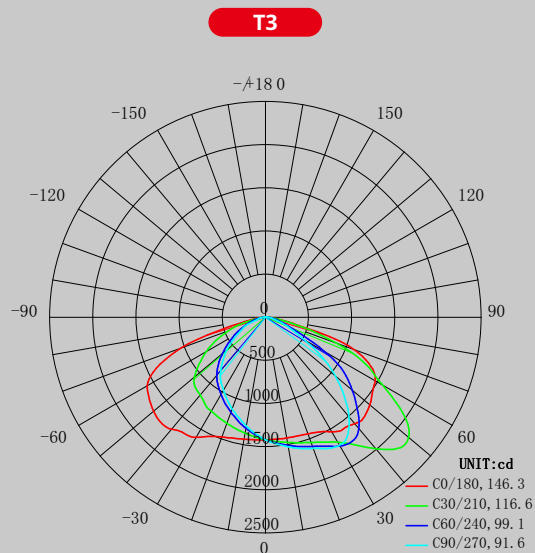
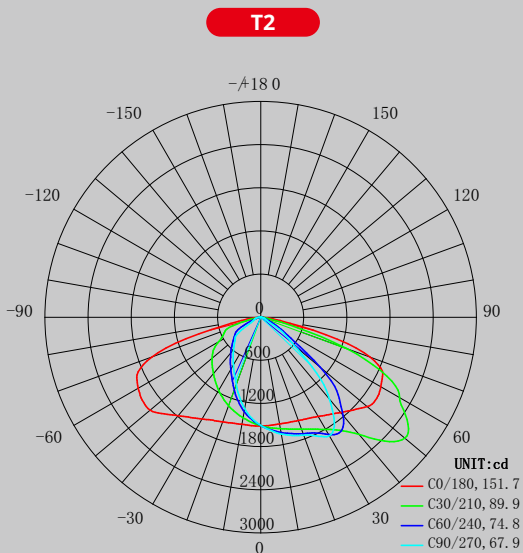
Using high-efficiency LED, luminous efficiency is up to 180lm/W (@25 C). The lights sealing lens is made of strong anti-ultraviolet PC, which has anti-aging and anti-impact performance, enabling long term usage.

With the unique cutoff design of the optic lens, allows us to eliminate the lighting pollution to the environment.



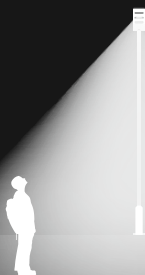
## Bat Wing Light Distribution

The new lens design improves the lighting effect and lighting uniformity, while also increasing light coverage.



AE3C comes complete with built-in motion detection system that automatically regulate the light source from full bright to dim mode to increase battery autonomy.

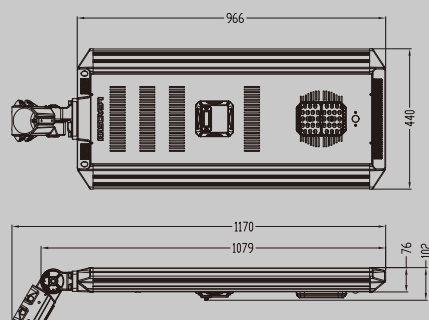
100% Brightness when motion is detected



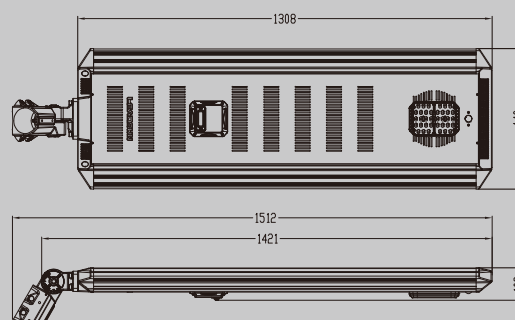
30% Brightness when no motion is detected



## Physical Dimensions (mm)



AE3C6020N



AE3C9030Q/AE3C9040R

## TECHNICAL DATA

| 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                  | 20.2                  |
| 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  | 14                    | 15                    |
|   | DIM Mode (30%)   | 51                    | 57                    |
| Light Photosensitivity (lx)                       | 30   | 30                    | 30                    |
| <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~51°C   | -20°C~51°C            | -20°C~51°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                 |

- \* 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!