

# LEADSUN<sup>®</sup>

"Bright Ideas For An Even Brighter Future."



CE | IP65 | IK08



## AE3C (Split Type) Solar Street Light

AE3C series split type consists of an off-grid solar system and LED light head separately and satisfies the needs of complicated street lightings. The users can adjust the direction of solar panel and LED light head depends on actual requirements to reach the best energy utilization and lighting effects.



Monocrystalline  
Solar Module



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



Superior  
Outdoor LED

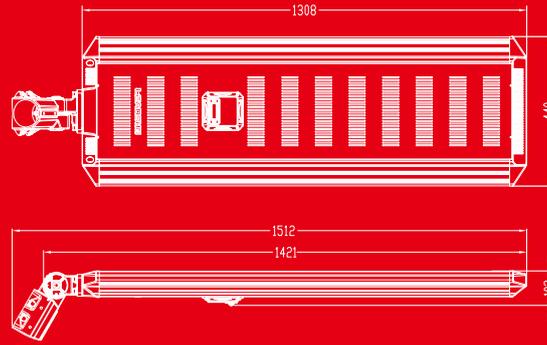


IP65  
Waterproof



5 Years  
warranty

## Physical Dimensions (mm)

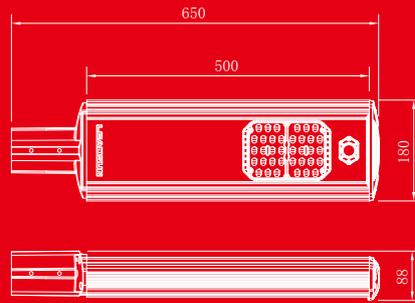


### SOLAR ENGINE TECHNICAL DATA

Model No.	AE3CS90R
<b>Physical Parameters</b>	
Power of PV Module (W)	90
Lithium Battery Capacity (Ah/Wh)	48Ah(615Wh)
Net Weight of Product (kg)	19.6
Dimension of Product (mm)	1421(L)×440(W)×102(T)
Controller Type	Touch-tone controller
Working Mode	100% brightness when motion is detected, 30% brightness when no motion is detected
Wireless Control Function (Optional)	√
<b>Packing Parameters</b>	
Dimension of Carton (mm)	1475(L)×155(W)×510(T)
Gross Weight of Product (kg)	22.3
<b>Environment Requirement</b>	
Charge Temperature	0°C~54°C
Discharge Temperature	-20°C~54°C
Storage Temperature (<3 months)	-20°C~45°C
Storage Temperature (3~12 months)	-20°C~25°C
<b>Mounting Recommendation</b>	
EPA (Effective Projected Area) (ft <sup>2</sup> )	3.99
APA (Actual Projected Area) (ft <sup>2</sup> )	3.33
Maximum Bracket Inner Diameter (mm)	76
Wind Load Rate (mph)	130
Top of Pole or Tenon OD (mm)	70~76

- \* 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!

## Physical Dimensions (mm)



### LED LIGHT HEAD TECHNICAL DATA

Model No.	RS40
Qty. of LED Chips	36
PIR Sensor	√
Maximum Input Power of PV Module (W)	200W
Range of Input Voltage (V)	12V
Storage Temperature	-20°C~45°C
Net Weight (kg)	4.5
Dimension of Product (mm)	650×180×88
<b>Light Parameters</b>	
Light Output (W)	40
Optional Distribution	Type 2, Type 3
Visual Angle	140°×70°
Color Temperature (K)	4000K
Typical Luminous Flux (lm)	6800
<b>Packing Parameters</b>	
Dimension of Carton (mm)×2set	710(L)×240(W)×225(T)
Gross Weight of Package (kg)	11
<b>Mounting Recommendation</b>	
EPA (Effective Projected Area) (ft <sup>2</sup> )	0.57
APA (Actual Projected Area) (ft <sup>2</sup> )	0.47
Wind Load Rate (mph)	130
Installation Height (m)	5~8
Installation Distance (m)	20~30
Recommended Diameter of arm (mm)	60

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- \* Use for outdoors only!



## Split Design

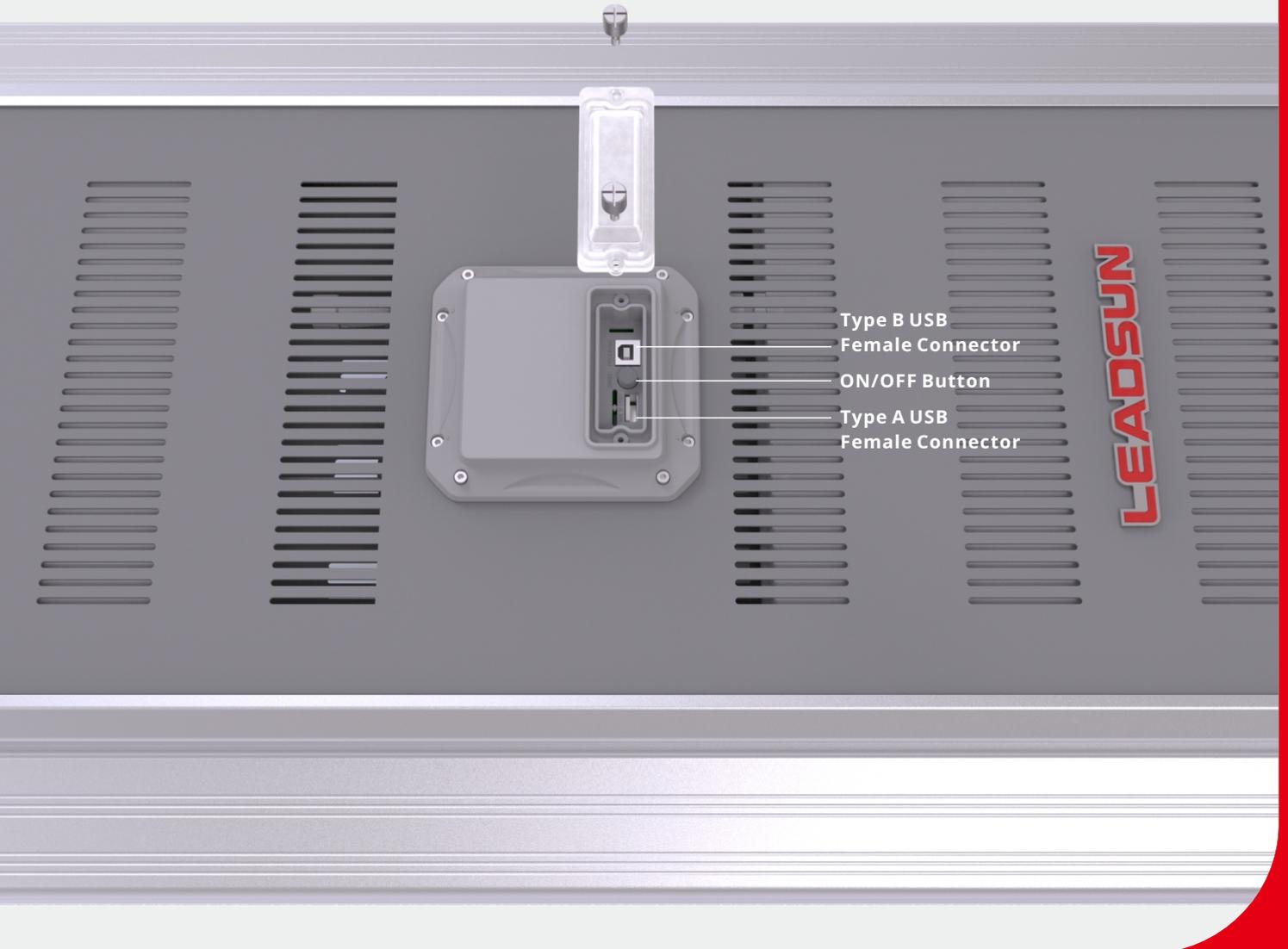
The AE3C split units can capture the maximum energy by setting the direction of solar engine facing to the strongest solar radiation while the lamp faces to the site you want to illuminate. With split design, users will take the benefit of flexible installation as well as all in one features.



The adjustable bracket can be adjusted from  $-30^{\circ}$  to  $+90^{\circ}$  (each scale is 6 degree).

# 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.

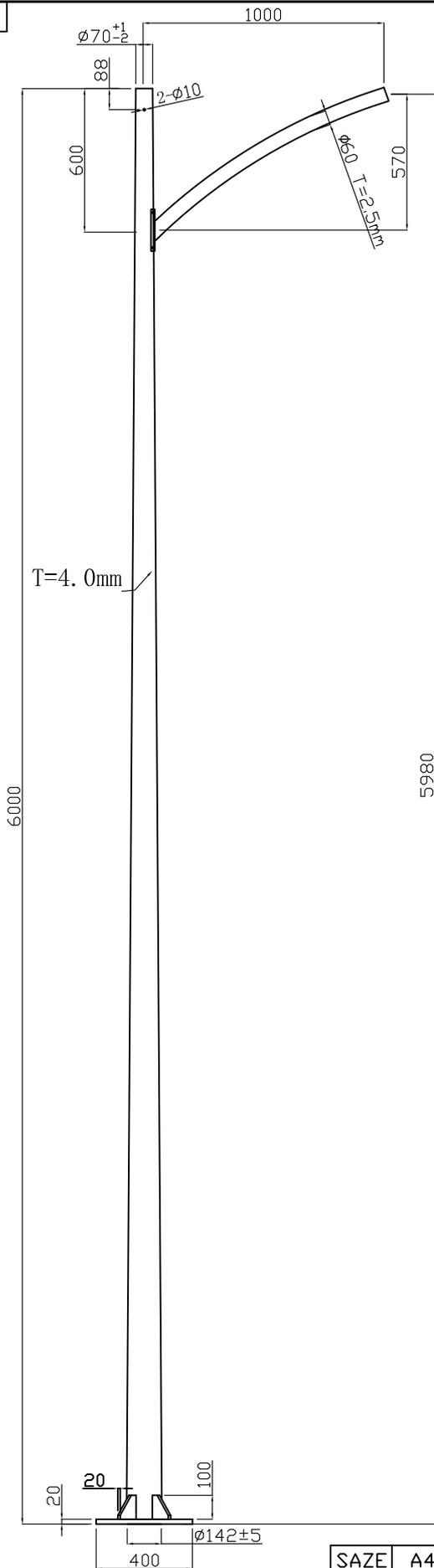


## Battery Management System

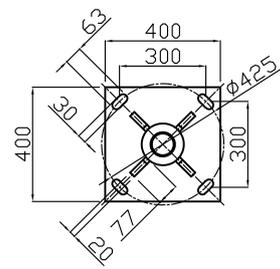
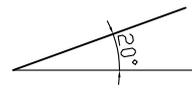
Adopted environment-friendly LiFePO<sub>4</sub> battery without metal ingredient. The depth of discharge is lifted from 60% up to 90%, 5 times the cycle life.

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

VERSION A



DIMENSION	TOLERANCE			
	A	B	C	D
0 <= 6	±0.05	±0.1	±0.2	±0.5
6 <= 30	±0.1	±0.15	±0.25	±1.0
30 <= 120	±0.15	±0.2	±0.3	±2.0
120 <= 200	±0.2	±0.3	±0.5	±4.0
200 > L	±0.3	±0.5	±1.0	±5.0
ANGLE	±0.1°	±0.2°	±0.5°	±1.0°



Flange plate view

- Note:
- 1.Design with speed : 45m/s.
  - 2.Tolerances are according is DIN EN ISO 13920.
  - 3.All steel parts are hot-dip galvanizing to BS EN ISO 1461:2009 and then spray anti-UV white powder.

MARK	MODIFICATION	DATE
3		
2		
1	⇒	

SAZE	A4	UNITS	mm	SHEET 1	MATERIAL	PART NO.	WEIGHT
TITLE: AE3C 6m Lamp post				SHEET 1 OF 1	Q235		
DRAWN				<b>LEADSUN</b>			
CHECKED							
APPROVED							
				DRAWING NO.	LS/DN. POL. 051	PROJECTION	
				CLIENT NO.	xxx		

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