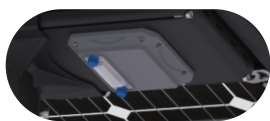
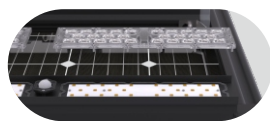




CE | IP65 | IK08



## AE5 **ULTRON** Version

### Solar Street Light

ULTRON series is Leadsun's latest lighting system with double-sided solar module and a highly powerful light, which claims to be a masterpiece from Leadsun.

Leadsun integrates the most cutting-edge technology with highly efficient PV module, powerful LiFePO4 batteries and smart controller into sleek and compact design. The all-in-one designed AE5 ULTRON version comes with adjustable LED tubes to realize different lighting angles, improves the product performance and efficiency, meanwhile, to simplify the installation and enhance user experience.



Monocrystalline  
Solar Module



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



Superior  
Outdoor LED



IP65  
Waterproof



5 Years  
warranty



# Enhanced Power and Design Integration

ULTRON version takes everything that was good about the last generation, AE5 series, and improves it.

With the aim to be innovative and to enhance the user experience, ULTRON AE5 uses bifacial mono crystalline solar panel to maximize the solar energy utilization. Compared with traditional one-sided poly or mono solar panel, it is capable of generating power from both front and back sides to increase the utilization of solar energy. Its higher power generation efficiency helps to extend working hours of the lighting system.



## Appearance Upgrade

Black and high-strength structural parts

## Solar Panel Power Upgrade

High power up to 200W, top 10%~15% higher energy yields with bifacial solar cell

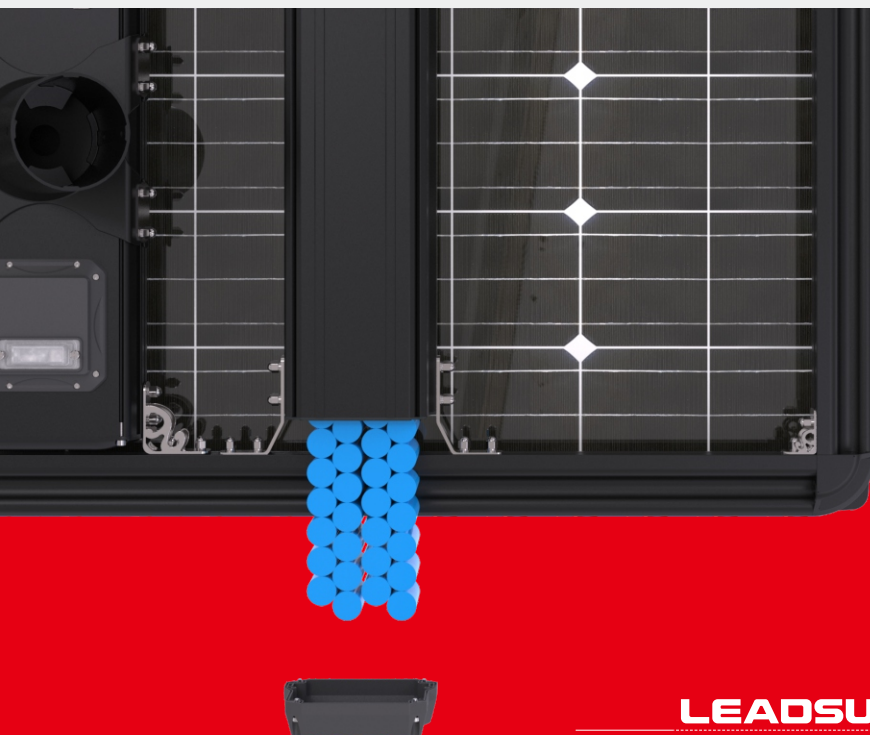
## Battery Capacity Upgrade

New battery box to increase battery capacity to maximum 96Ah



# Rock Solid Mechanical Structure

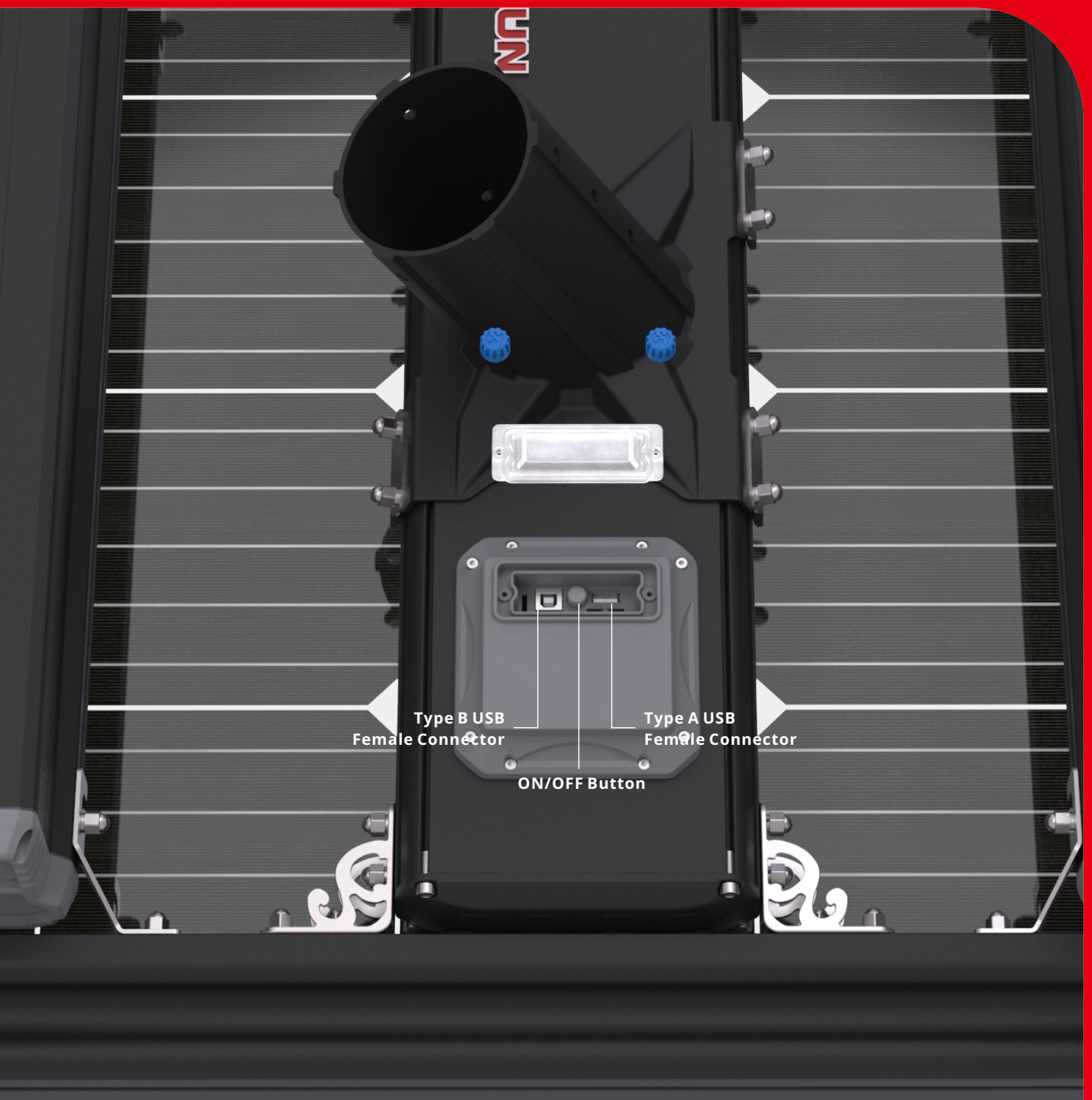
With modular design, anti-corrosive aluminum alloy shell, toughened stainless steel components, IP65 and IK08 rated covers for added strength, the ULTRON series has been engineered to be extremely durable and handle whatever comes its way. Be it a rain, snow or storm, AE5 ULTRON version has got the area covered.



## 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.



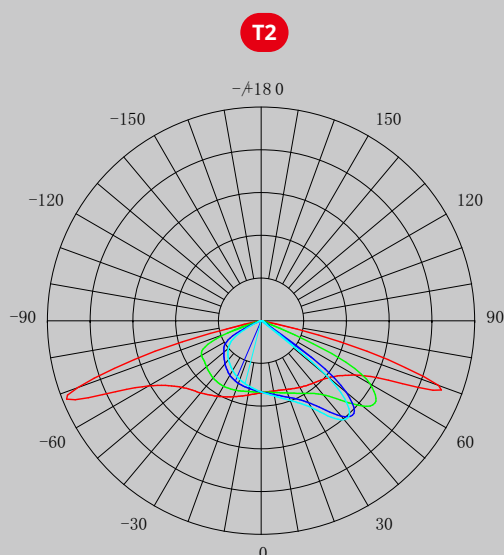
## High Efficient LED

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.



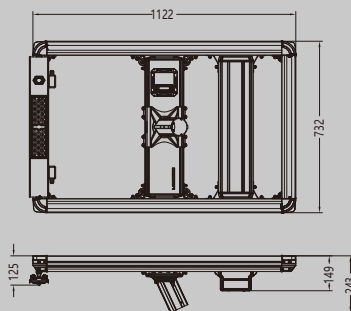
AE5 comes complete with built-in motion detection system that automatically regulate the light source from full bright to dim mode to increase battery autonomy.

100% Brightness when motion is detected

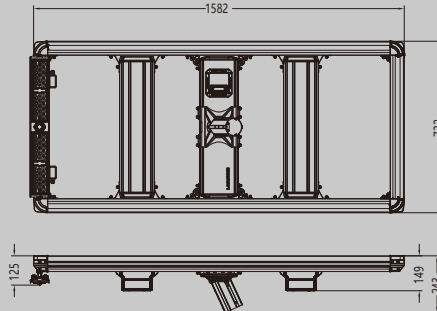
30% Brightness when no motion is detected



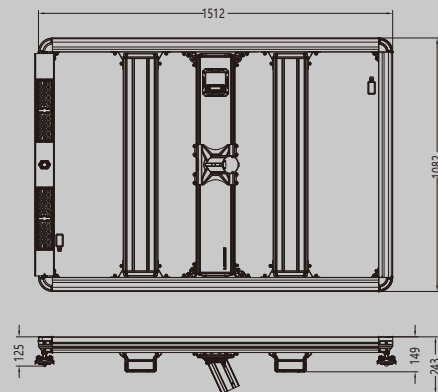
## Physical Dimensions (mm)



AE5S150V12B64L40



AE5S200V12B96L60



AE5S300V12B96L80

## TECHNICAL DATA

Model No.		AE5S150V12B64L40	AE5S200V12B96L60	AE5S300V12B96L80
Physical Parameters				
Power of PV Module (W)	150		200	300
Lithium Battery Capacity (Ah/Wh)	64Ah (820Wh)		96Ah (1229Wh)	96Ah (1229Wh)
Qty. of LED Chips (pcs)	1×28		2×28	2×28
PIR Sensor	√		√	√
Net Weight of Product (kg)	24.6		29.8	48.2
Dimension of Product (mm)	1122(L)×733(W)×152(T)		1582(L)×733(W)×152(T)	1512(L)×1082(W)×152(T)
Wireless Control Function (Optional)	√		√	√
Light Parameters				
Light Output (W)	1×40		2×30	2×40
Optional Distribution	Bat Wing		Bat Wing	Bat Wing
Visual Angle	140°×70°		140°×70°	140°×70°
Color Temperature (K)	5000		5000	5000
Typical Luminous Flux (lm)	7200		11400	14400
Working Mode	First 4 hours, 100% brightness. After the first 4 hours, 100% brightness when motion is detected and 20% brightness when there is no detection.			
Battery Backup Time (days)	2~3 days		2~3 days	2~3 days
Light Photosensitivity (lx)	30		30	30
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)	28	33.8	52.2
Extra Package (for Bracket)	Carton Size (mm)	240×170×260	240×170×260	240×170×260
	Gross Weight (kg)	2.6	2.6	2.6
Environment Requirement				
Charge Temperature	0℃~54℃		0℃~54℃	0℃~54℃
Discharge Temperature	-20℃~54℃		-20℃~54℃	-20℃~54℃
Storage Temperature (<3 months)	-20℃~45℃		-20℃~45℃	-20℃~45℃
Storage Temperature (3~12 months)	-20℃~25℃		-20℃~25℃	-20℃~25℃
Mounting Recommendation				
EPA (effective projected area) (ft²)	4.49		6.33	8.86
APA (actual projected area) (ft²)	3.74		5.28	7.38
Wind Load Rate (mph)	130		130	130
Maximum Bracket Inner Diameter (mm)	90		90	90
Top of Pole or Tenon OD (mm)	80~85		80~85	80~85
Installation Height (m)	6~8		7~10	8~12
Installation Distance (m)	25~35		25~40	30~45

- \* 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!