

# LEADSUN®

"Bright Ideas For An Even Brighter Future."



CE | IP65 | IK08



## AE6

ULTRON Version

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. With a separate and flexible cut-off luminaire, AE6 ULTRON version can be adapted to a variety of lighting angles so as to improve 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, AE6 series, and improves it.

With the aim to be innovative and to enhance the user experience, ULTRON AE6 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

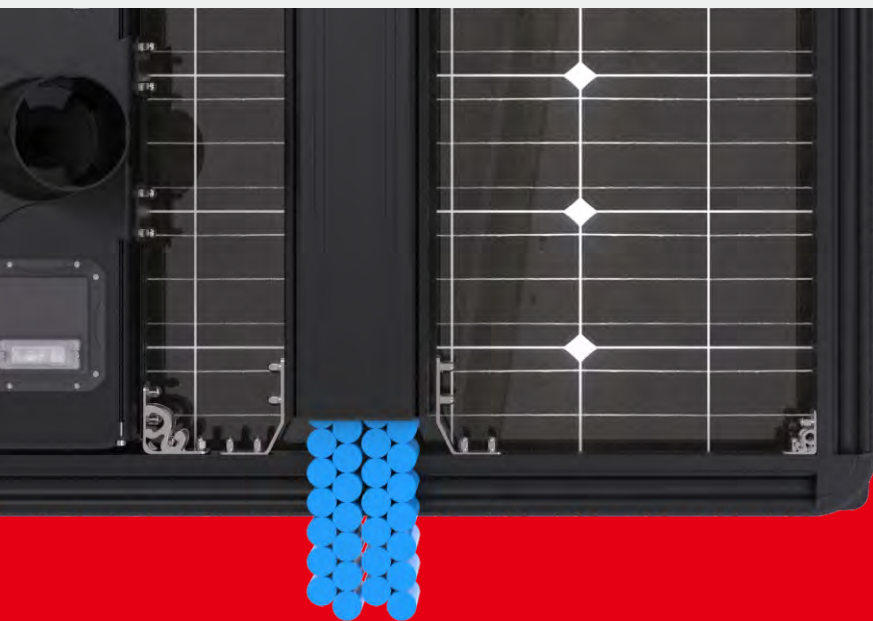
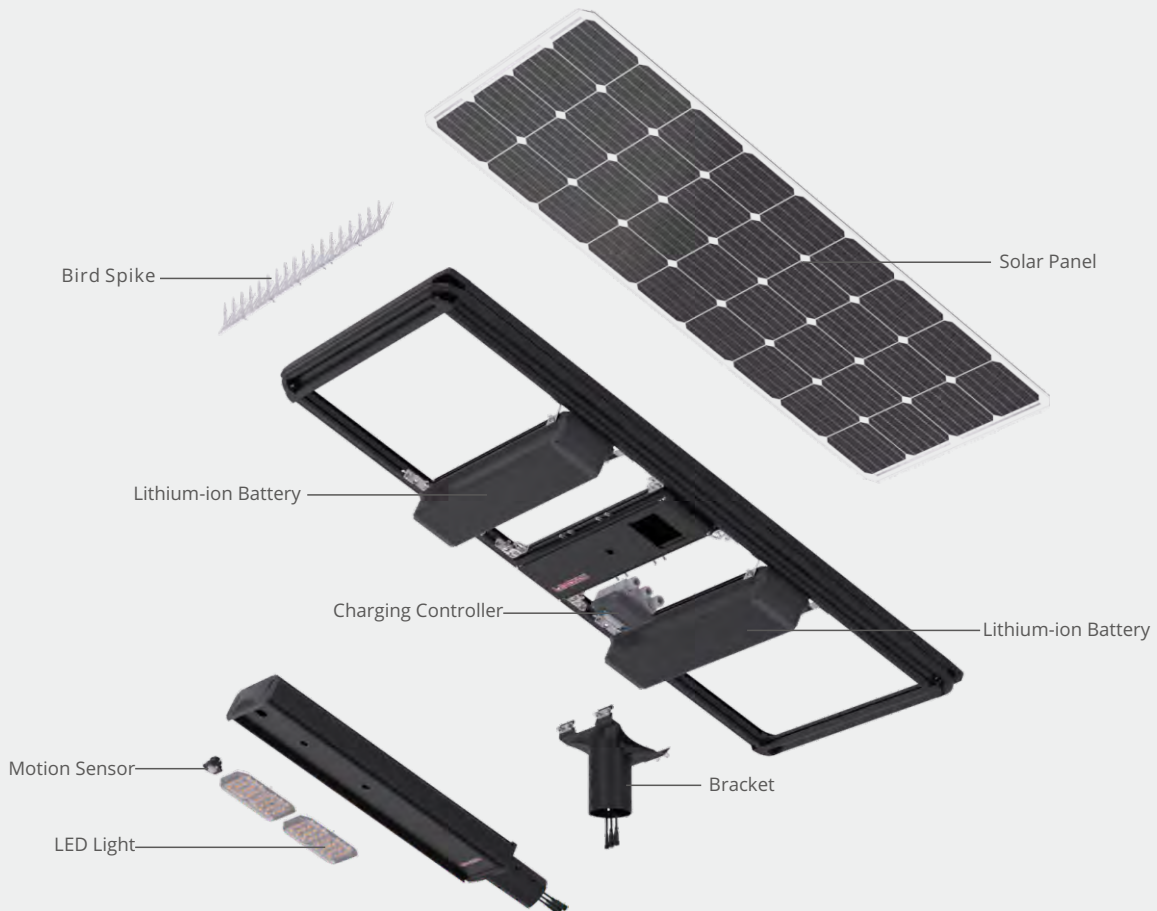
High power up to 200W, top 10%~15% higher energy yields with bifacial solar cell

## Battery Capacity Upgrade

New battery box to increase battery capacity to maximum 96Ah

# Rock Solid Mechanical Structure

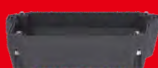
With modular design, anti-corrosive aluminum alloy shell, toughened stainless steel components, IP65 and IK08 rated covers for added strength, the ULTRON series has been engineered to be extremely durable and handle whatever comes its way. Be it a rain, snow or storm, AE6 ULTRON version has got the area covered.

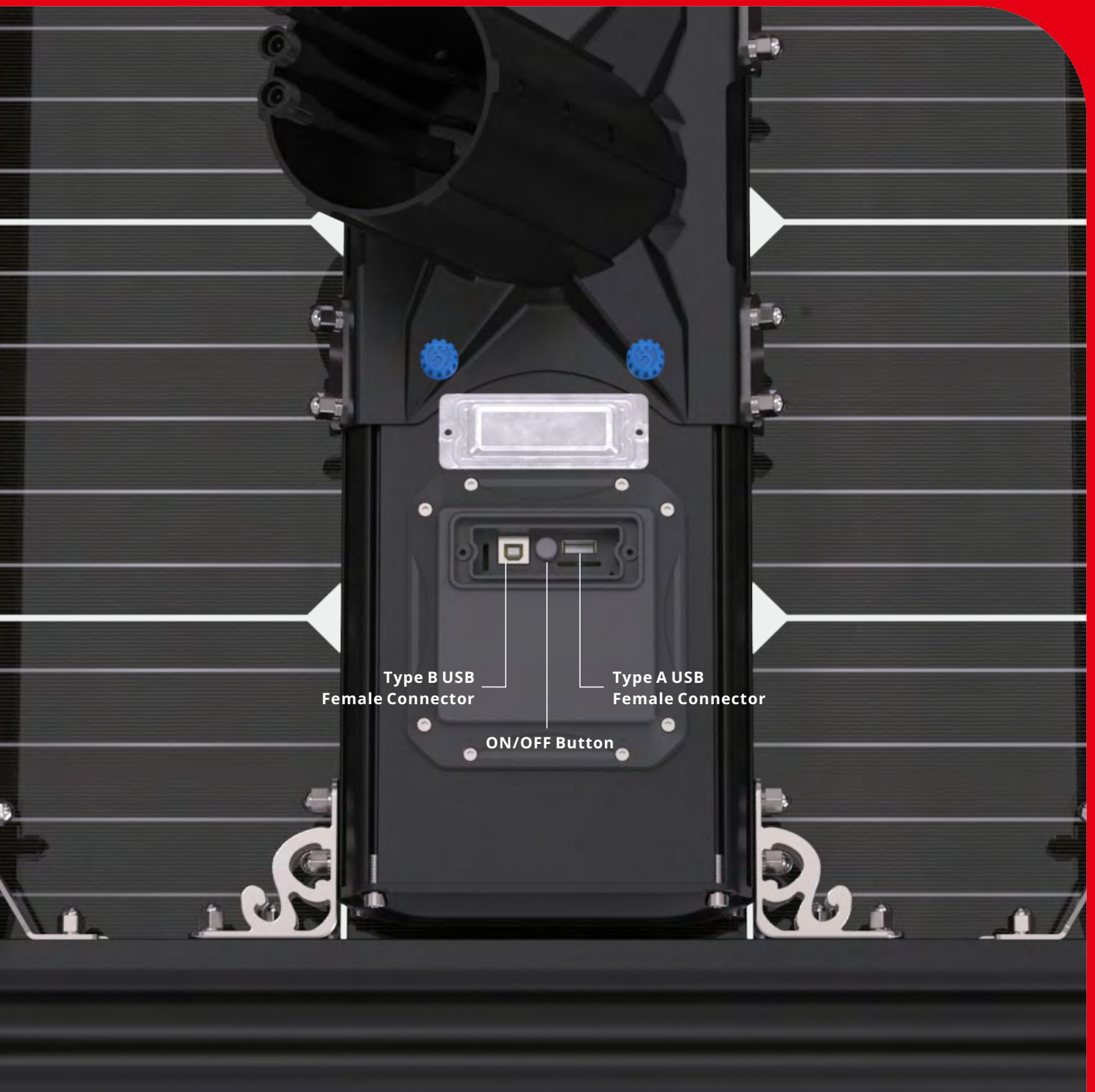


## Battery Management System

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.





## 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

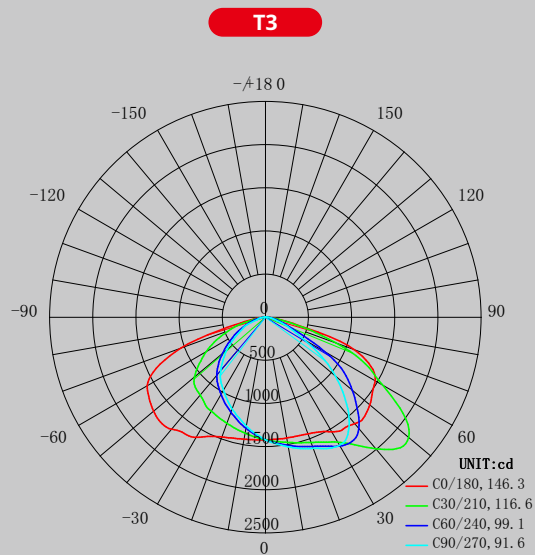
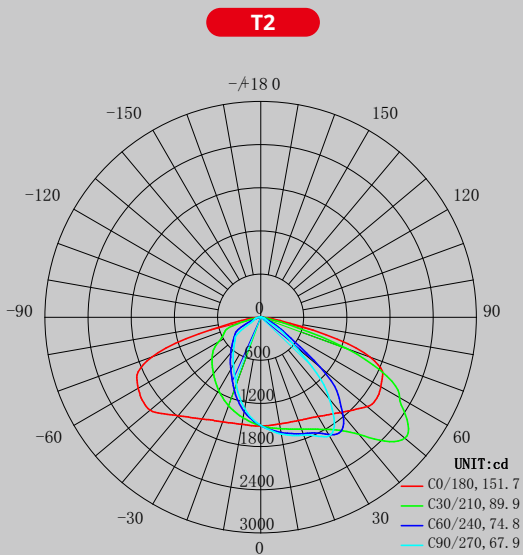
Using high-efficiency LED, luminous efficiency is up to 180lm/W (@25 C). The lights sealing lens is made of strong anti-ultraviolet PC, which has anti-aging and anti-impact performance, enabling long term usage.

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



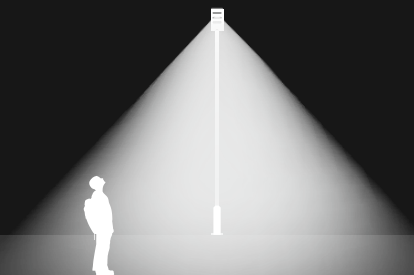
## Bat Wing Light Distribution

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



AE6 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



# Freedom Classic LED Fixture

The newly designed Freedom Classic LED fixture with ultra-sharp **cut-off** optics can significantly reduce lighting glare and eliminates the effects of sky-glow at night. It is offered in a 3000K and fully certified **DARK SKY** compliant fixture for residential development areas that want to minimise light pollution and obtrusive lighting into residential properties.



**Protect night from light pollution**

**Waterproof and cutoff design with excellent heat dissipation**

**Using premium outdoor LED with high luminous efficacy**

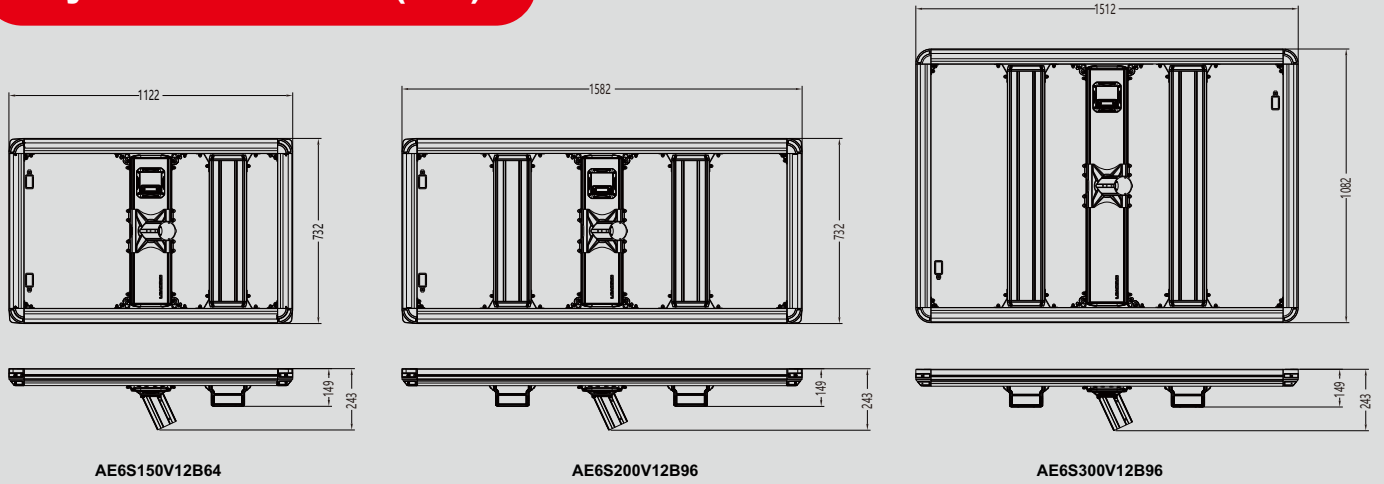


**IDA Certification requires 3000K CCT or lower and for fixture to be fixed mount at 90°**

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## Physical Dimensions (mm)



AE6S150V12B64

AE6S200V12B96

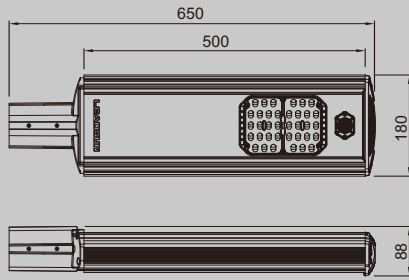
AE6S300V12B96

## SOLAR ENGINE TECHNICAL DATA

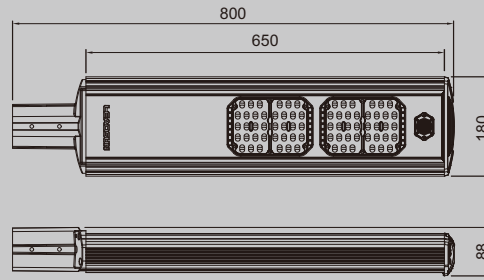
Model No.	AE6S150V12B64	AE6S200V12B96	AE6S300V12B96	
<b>Physical Parameters</b>				
Power of PV Module (W)	150	200	300	
Lithium Battery Capacity (Ah/Wh)	64Ah (820Wh)	96Ah (1229Wh)	96Ah (1229Wh)	
Net Weight of Product (kg)	26	28.5	46.2	
Dimension of Product (mm)	1122(L)×733(W)×152(T)	1582(L)×733(W)×152(T)	1512(L)×1073(W)×152(T)	
Wireless Control Function (Optional)	√	√	√	
<b>Light Parameters</b>				
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.			
Light Photosensitivity (lx)	30	30	30	
<b>Packing Parameters</b>				
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)	29	32.5	50.2
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
<b>Environment Requirement</b>				
Charge Temperature	0°C~54°C	0°C~54°C	0°C~54°C	
Discharge Temperature	-20°C~54°C	-20°C~54°C	-20°C~54°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> )	4.49	6.33	8.86	
APA (Actual Projected Area) (ft <sup>2</sup> )	3.74	5.28	7.38	
Wind Load Rate (mph)	150	150	150	
Maximum Bracket Inner Diameter (mm)	90	90	90	
Top of Pole or Tenon OD (mm)	80~85	80~85	80~85	

- \* 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)



RS30/RS40/RS50



RS60/RS80

### LED LIGHT HEAD TECHNICAL DATA

Model No.	RS30	RS40	RS50	RS60	RS80
Qty. of LED Chips	36	36	36	2×36	2×36
PIR Sensor	●	●	●	●	●
Maximum Input Power of PV Module (W)	300W	300W	300W	300W	300W
Range of Input Voltage (V)	22V	22V	22V	22V	22V
Storage Temperature	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C
Net Weight (kg)	4.5	4.5	4.5	5.0	5.0
Dimension of Product (mm)	650×180×88	650×180×88	650×180×88	800×180×88	800×180×88
<b>Light Parameters</b>					
Light Output (W)	30	40	50	60	80
Optional Distribution	T2/T3	T2/T3	T2/T3	T2/T3	T2/T3
Visual Angle	140°×70°	140°×70°	140°×70°	140°×70°	140°×70°
Color Temperature (K)	5000K	5000K	5000K	5000K	5000K
Typical Luminous Flux (lm)	5550	7200	8750	11400	14400
<b>Packing Parameters</b>					
Dimension of Carton (mm)×2set	680×210×210			830×210×210	
Gross Weight of Package (kg)	11	11	11	12	12
<b>Mounting Recommendation</b>					
EPA (Effective Projected Area) (ft <sup>2</sup> )	0.57	0.57	0.57	0.70	0.70
APA (Actual Projected Area) (ft <sup>2</sup> )	0.47	0.47	0.47	0.58	0.58
Wind Load Rate (mph)	130	130	130	130	130
Installation Height (m)	5~8	5~8	7~10	7~10	8~12
Installation Distance (m)	20~30	20~30	25~40	30~45	35~45
Top of Pole or Tenon OD (mm)	60	60	60	60	60

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