



# AE6 Series Solar Street Light

AE6 series are Off-grid high power solar street light. Their integrated photo voltaic module, LiFePO4 battery combines with an intelligent charging controller to obtain clean energy from sunlight and use it to luminaires when it is dark. The luminaire adopted Osram's edge LEDs and optimized lens to achieve high efficiency light output and a matrix light beam. IP65 rated components ensure endurance against harsh wealth and keep AE6 solar street light free from corrosion. Their design delivers a long lifespan with minimal maintenance and provides a complete solution for off-grid and remote application.

## Features and Benefits

- Integrated off-grid solar system.
- OSRAM high power LED, no UV and IR.
- Matrix beam achieves better light effects.
- Using LifePO4 battery to prolong product life and protect environment.
- Easy to install and maintain.
- Rust-proof, dustproof and waterproof.
- Safety and reliability.
- Three years warranty.

## Applications:

- |                               |                                        |
|-------------------------------|----------------------------------------|
| ■ Street lighting             | ■ Jetties, Pontoons and Docks lighting |
| ■ Parking lots                | ■ Bus shelters lighting                |
| ■ Courtyard & garden lighting | ■ Security Lighting                    |
| ■ Military bases lighting     | ■ Square Lighting                      |
| ■ Commercial lighting         |                                        |

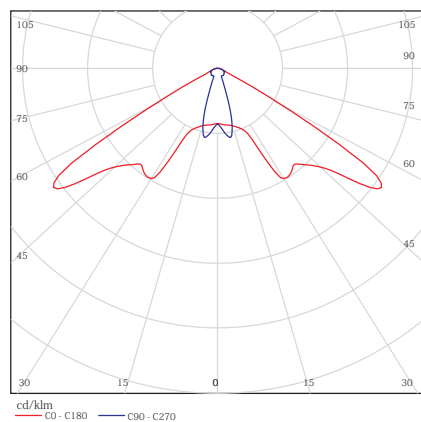


## Technical Data

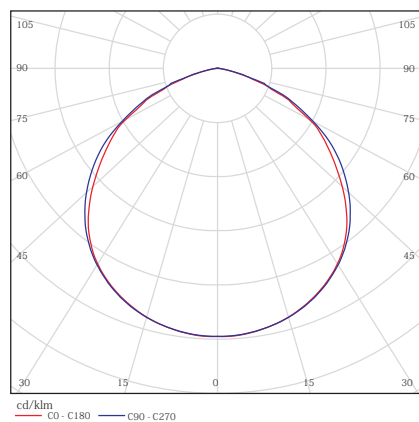
Off-grid Solar Power Supply System								
Model No.		AE6S80V12B32	AE6S80V12B42	AE6S120V24B26	AE6S120V24B32	AE6S120V24B42	AE6S160V24B42	AE6S160V24B52
Monocrystalline silicon PV module		80Wp	80Wp	120Wp	120Wp	120Wp	160Wp	160Wp
LiFePO4 battery module		12.8V 32AH	12.8V 42AH	25.6V 26AH	25.6V 32AH	25.6V 42AH	25.6V 42AH	25.6V 52AH
Output voltage		12VDC	12VDC	24VDC	24VDC	24VDC	24VDC	24VDC
Over load/Over charge/Over discharge protect		Yes						
Working temperature	Charging temp.℃	0℃~+60℃						
	Discharging temp.℃	-20℃~+60℃						
Storage temperature℃		-20℃~+60℃						
IP Rate		IP65						
Dimension		1012 × 602 × 82mm		1012 × 827 × 82mm			1112 × 1012 × 82mm	
Net weight		17.7kg	20.7kg	25.7kg	27.2kg	30.2kg	36.7kg	39.7kg
Bracket of Off-grid Solar Power Supply System								
Joint bracket tilt angles		25° / 40°						
Inner diameter of bracket		φ 90mm						
Net weight		1.8kg						

LED Light									
Model No.	LSL16-12	LSL16M-12	LSL20-12	LSL20M-12	LSL20-24	LSL20M-24	LSL30-24	LSL30M-24	LSL40M-24
LED MAX. Output	16W	16W	20W	20W	20W	20W	30W	30W	40W
Working voltage	DC12V	DC12V	DC12V	DC12V	DC24V	DC24V	DC24V	DC24V	DC24V
Light source	Samsung 5630	OSRAM LED	Samsung 5630	OSRAM LED	Samsung 5630	OSRAM LED	Samsung 5630	OSRAM LED	OSRAM LED
Light efficiency(typ.)	110lm/W	95lm/W	110lm/W	95lm/W	110lm/W	95lm/W	110lm/W	95lm/W	95lm/W
Color temperature(typ.)	5000K								
CRI	80	70	80	70	80	70	80	70	70
Light distribution curve/Beam type	Round beam	Bat Wing	Round beam	Bat Wing	Round beam	Bat Wing	Round beam	Bat Wing	Bat Wing
Working Mode	Four hours full brightness after sunset and then work on intelligent mode(full bright when people walk nearby and dim to 20% when human are not around) till dawn.								
	Dim to 20% till dawn								
IP Rate	IP65								
Bracket fit range	60~90mm								
Dimension	620 × 166 × 172mm						840 × 166 × 172mm		
Net weight	3.5kg	3.5kg	3.5kg	3.5kg	3.5kg	3.5kg	4.5kg	4.5kg	4.5kg

## Light distribution curve

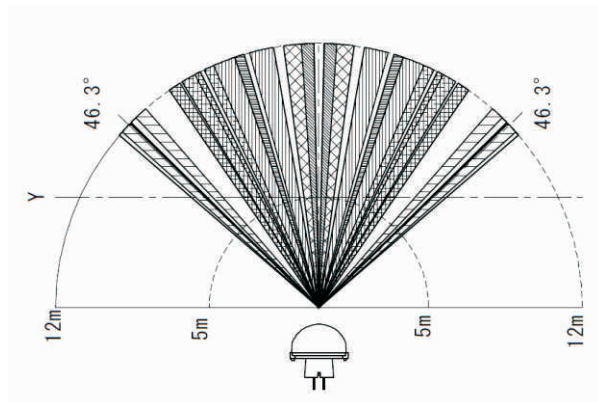


Bat wing (models with the suffix M)

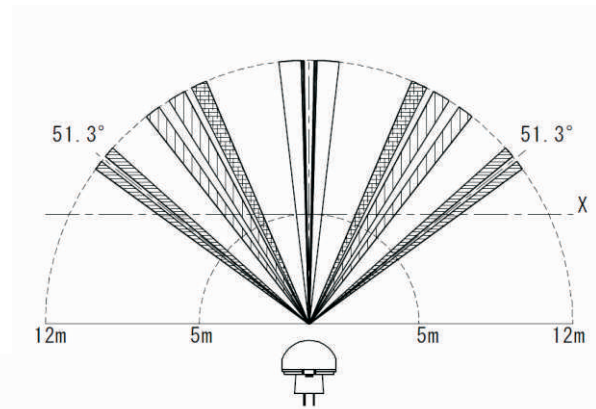


Round beam

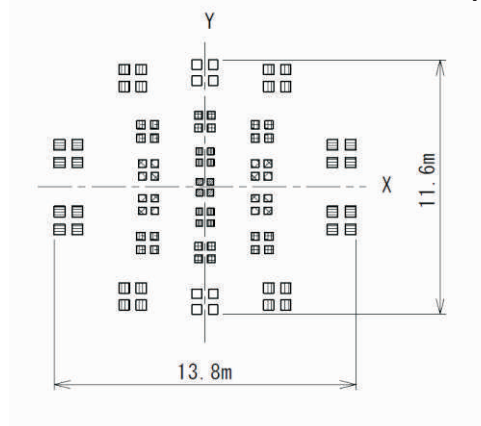
## PIR Detection Area



Vertical

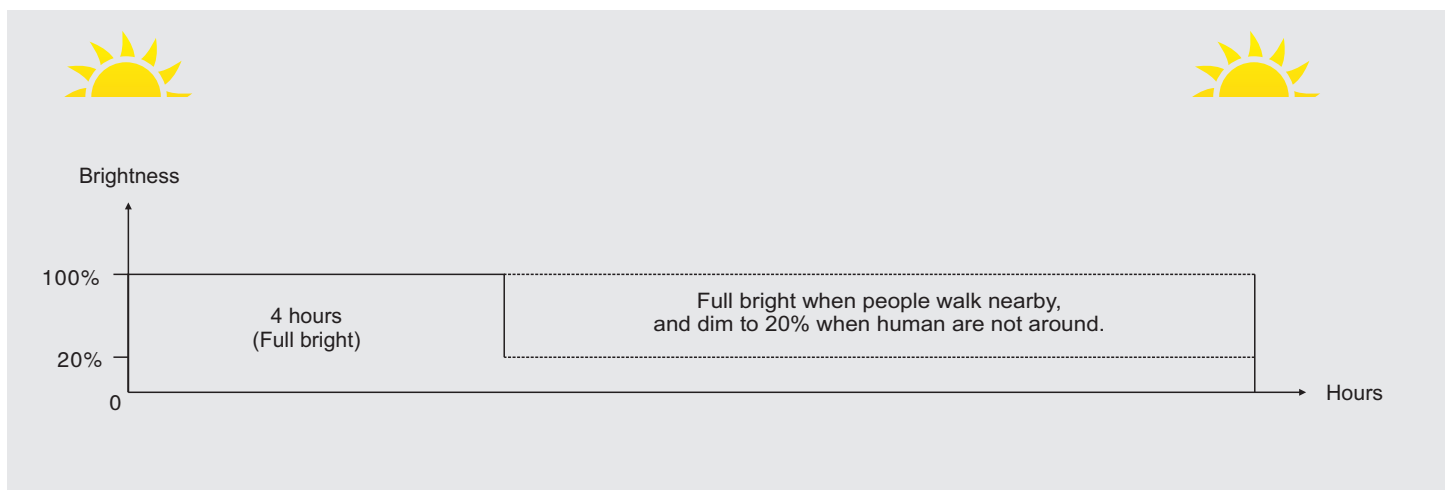


Horizontal

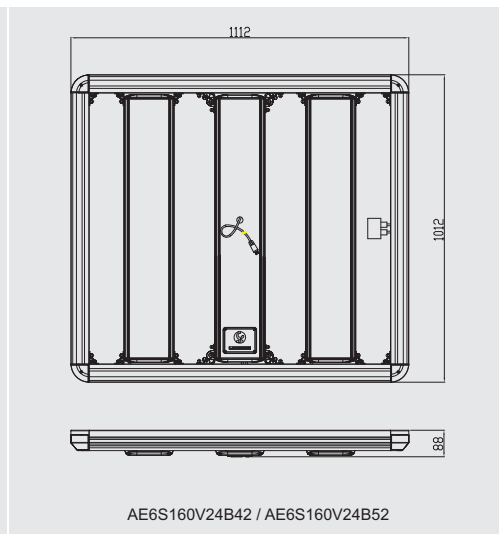
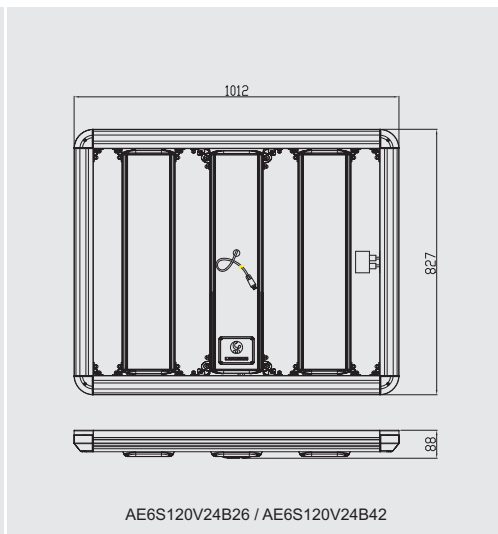
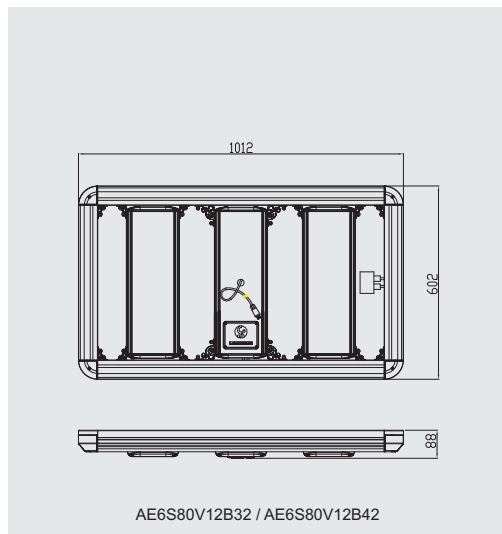


X-Y Cross Section (range 5m)

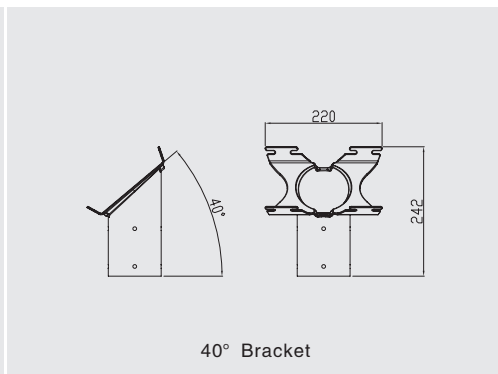
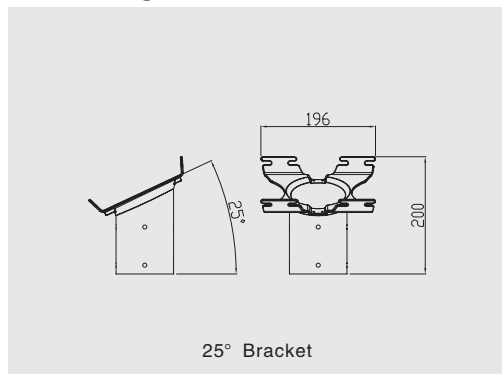
## Working Mode



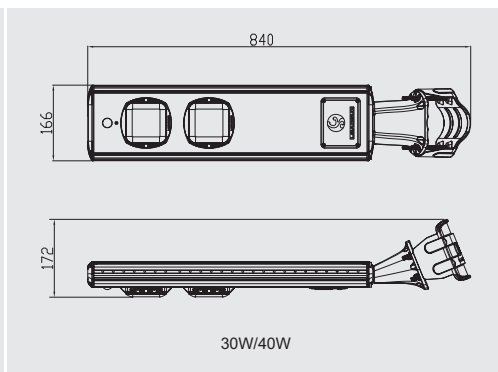
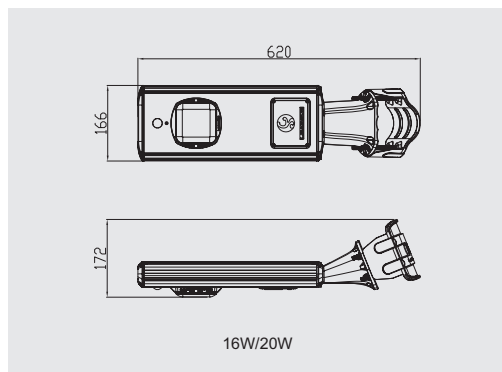
## Off-grid Solar Power Supply System **Physical Dimensions**



## Bracket **Physical Dimensions**



## LED Light **Physical Dimensions**



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Lamp pole (Not contained in AE6 system. Reference only)

Version	A
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