









100+ Patent Certificates \$1,000,000+ Annual Energy Saving 10,000+ Projects Successfully Installed

Starts From Better Lighting
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# > Features of SD Series

The SD Solar LED Street Light has an all-in-one design, modern appearance, and versatile features including photocell, timing, dimming, and power-saving options. It also provides a choice between microwave or PIR sensors.

- Power range: from 20W to 120W;
- · One-sided monocrystalline solar panel, suitable for remote areas without electricity access, with optional bifacial panel.
- · Uses LiFePO4 batteries, enduring over 2000 charge/discharge cycles for safety, compactness, and longer lifespan.
- Operates for 2-3 rainy days in intelligent mode.
- · MPPT controller offers energy-saving mode with adjustable levels, extending lighting duration and auto brightness adjustment.
- · Crafted from die-cast aluminum with anti-corrosion C5-grade coating.
- · Highly efficient 210lm/W option, outperforming standard solar lights with lower energy consumption.
- · Precision optics for efficient road lighting in various conditions, no light wastage, and ULOR = 0% to prevent up-light pollution.
- The optical systems maintains an IP65 rating for durability.
- Provides remote IoT control solutions with optional 4G or ZigBee connectivity. For details, please contact us.



























# **KEY ADVANTAGES**



 Monocrystalline Silicon Solar Panel 25 years lifespan ensures durability



 Bificial Solar Panel Optional Conversion rate up to 21%, MOQ >100 on request



 High Lumen Output High-performance LEDs efficacy >210lm/W



 Rotatable LED Modules Enhanced precision in adjusting the illumination angle



 Adjustable & Reinforced Bracket Robust shock resistance and the flexibility for panel alignment with sunlight through free adjustments.



 Long Lifespan Li-ion Battery & MPPT Intelligent temperature control guarantees prolonged operation and safeguards battery lifespan



 Grid Hybrid Solution Optional Grid Hybrid Power optional, increased adaptability to fulfill project demands



 Intelligent Lighting Control Smart time-based lighting control, aligning with lighting requirements flexibly.





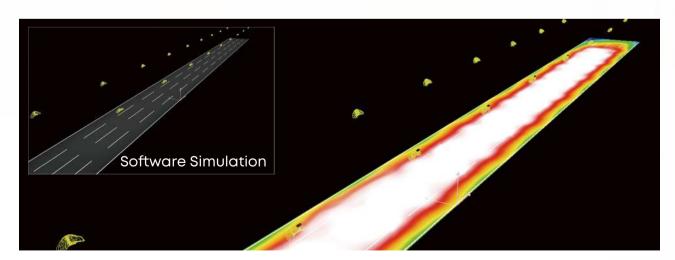




# > Photometrics Design



- The light engine utilizes the latest high-efficiency LEDs and specialized optics for professional use.
- When paired with 5050 LED chips, it offers lighting solutions ranging from premium specialty lighting to cost-effective yet high-quality fixtures.



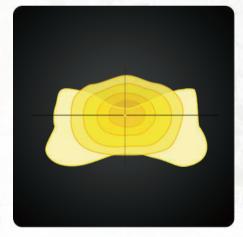
#### Distribution

LED model:5050 (adjustable)

T203(20-120W)

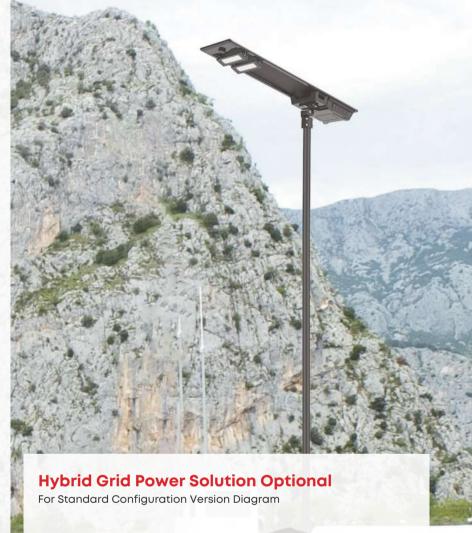


T304(20-120W)



T502(20-120W)







The Standard configuration for 20W to 80W, with the driver inside the battery box.

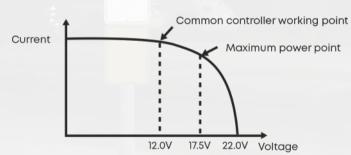
The Standard configuration for 100W to 120W, with the driver placed outside the battery box.

The Hybrid Grid Power Solution offers a replaceable internal power supply, seamlessly switching between mains and battery power based on voltage thresholds. The standard setup does not include the Hybrid power feature.

# > Application Reference

- Road & street lighting
- · Residential area ligthing
- · Garden, parks & perimeter lighting
- Parking lot lighting
- · Industrial and commercial park lighting
- Railway & station side lighting
- · Riverside & jogging track lighting

### **Advantages of controller**



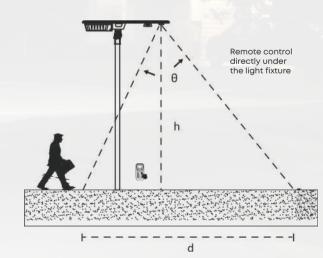
(take 12V battery system as an example)

- 1) Utilizing Moving Track MPPT technology for enhanced tracking efficiency and speed, resulting in a 20%+ improvement
- 2) Featuring UltraGreen power control technology with minimal static power consumption and sleep current.
- Common controller working point 3) Offering programmable load power/time control with 10 time-periods.
  - 4) Supporting multiple intelligent power modes, automatically adjusting load power based on battery capacity.
  - 5) Equipped with various protection functions, including battery/PV reverse connection protection, LED short circuit/open circuit/power limit protection.
  - 6) Housed in durable aluminum with an IP67 waterproof rating, suitable for diverse harsh environments.
  - 7) Expanding capabilities with IoT remote communication and monitoring.

# Customizable Housing Color



### **Detection distance**



Remote control distance is 5-8 meters, but controller sensitivity may vary due to installation height and environmental conditions; please consider the actual field.

Note: When using the remote controller, avoid placing 2 or more lights within 12 meters simultaneously, as it may disrupt reception and transmission.

Inductiv		θ-Angle (X-axis rotation: 360°)	h (Height of lamp rod)	d (Inductive width)
IR (Infr	ared)	60°	6-8m	6-l 0m
W (Micro		65°	6-10m	7-I 0m

# > Application of Typical Networking of Smart Street Light(optional)



#### Single lamp control

Control street light switch, brightness adjustment, current acquisition. Voltage acquisition, power calculation and power factor functions.



#### Wireless network

From the device to the cloud, NB-IoT, GPRS, LTE and other cellular networks are used, without cabling.



#### **Fault management**

The street light can automatically report fault information, troubleshoot faults through the platform, and query historical faults.



#### **Energy management**

Supports online monitoring and storage of energy consumption and configuring energy saving policies.



### Intelligent monitoring

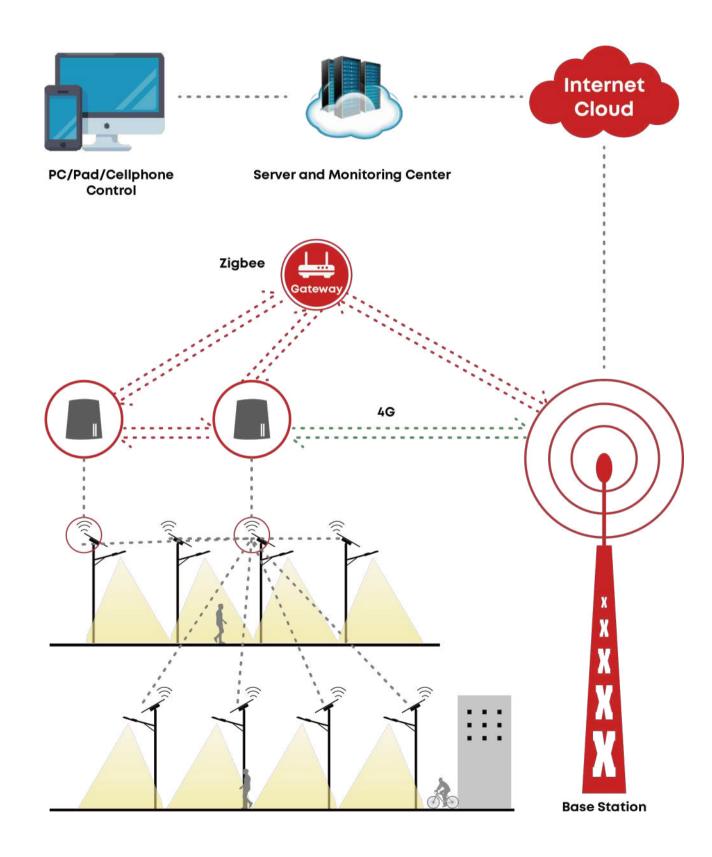
Support remote monitoring and remote control through PC web and mobile APP.



### Big data analysis

Based on the massive data of the platform, street light fault analysis and energy consumption analysis can be carried out to provide a basis for the maintenance of street light equipment to save energy and reduce consumption.

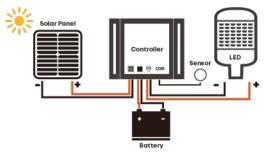
#### APPLICATION OF TYPICAL IOT NETWORKING



#### **Parameter Table**

Model	AOK-SD20	AOK-SD30	AOK-SD40	AOK-SD50	AOK-SD60	AOK-SD80	AOK-SD100	AOK-SD120			
Power	20W	30W	40W	50W	60W	80W	100W	120W			
Control Option		ı	Photocell sensor, Timin	g, dimming, intelligen	t power saving, microwa	ave sensor or PIR senso	or.				
Grid Hybrid power Solution(optional) D	Driver			Inventroni	cs/Meanwell						
Work Mode			2H-100%; 4	H-Detected: 60%, None	: 20%; 6H-Detected: 40%	, None: 10%					
Photometric Data											
LED model				5050, custo	m on request						
Lens		Polycarbonate									
Efficacy (Im/W, Std. Dev. ±5%)@CCT=5700K, CRI>70Ra	050 210lm/W	210lm/W	2001 m/W	210lm/W	210l m/W	2001 m/W	210lm/W	2001 m/W			
Luminous flux (Im, Std. Dev. ±5%)@CCT=5700K, CRI>70Ra	050 4200l m	6300lm	8000l m	10500l m	12600l m	16000l m	21000l m	24000lm			
ULOR				= 0%, @ Lumina	ire inclination 0°						
сст				3000K, 4000K, 50	000К, 5700К, 6500К						
CRI				70Ra/80F	ta optional						
Beam angle				T203(60°*155°)/T304(7	5°*160°)/T502(150°*150°)	ı					
Mechanical Data											
SCx (EPA) Fixed module	Top View: 0.340m²(3.65ft²) Side View: 0.067m²(0.72ft²) Front View: 0.052m²(0.56ft²)	Top View: 0.400m²(4.31ft²) Side View: 0.072m² (0.78ft²) Front View: 0.052m² (0.56ft²)	Top View: 0.470m <sup>2</sup> (5.06ft <sup>2</sup> ) Side View: 0.077m <sup>2</sup> (0.83ft <sup>2</sup> ) Front View: 0.052m <sup>2</sup> (0.56ft <sup>2</sup> )	Top View: 0.530m²(5.70ft²) Side View: 0.082m² (0.88ft²) Front View: 0.052m² (0.56ft²)	Top View: 0.590m²(6.35ft²) Side View: 0.085m² (0.91ft²) Front View: 0.052m² (0.56ft²)	Top View: 0.690m²(7.43ft²) Side View: 0.082m²(0.88ft²) Front View: 0.062m²(0.67ft²)	Top View: 0.750m²(8.07ft²) Side View: 0.084m²(0.90ft²) Front View: 0.062m²(0.67ft²)	Top View: 0.910m²(9.80ft²) Side View: 0.091m²(0.98ft²) Front View: 0.062m²(0.67ft²)			
IP Rating	ļ.		J.	IP65, according to	standard EN 60529						
Housing			н	eavy-duty die-cast alur	minum (EN AC-46100)+PA	A66					
Surface treatment		Anti-UV thermosett	ing polyester / 80 micro	n epoxy primer + Anti-	UV thermosetting polye	ster (for extremely corr	osive environments).				
Painting			В	lack, custom color on re	equest, C5-grade painti	ng.					
Mounting				Pos	t Top						
- " -											
Configuration Data											
				Single side monocr	ystalline solar panel						
Photovoltaic panel	16V 40W	18V 50W	18V 60W	Single side monocr	ystalline solar panel 18V 80W	36V 100W	36V 120W	36V 150W			
Photovoltaic panel Solar panel voltage(W)	16V 40W	18V 50W 12.8V 18AH	18V 60W 12.8V 24AH	-		36V 100W 25.6V 24AH	36V 120W 25.6V 30AH	36V 150W 25.6V 36AH			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)				18V 70W	18V 80W						
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)	12.8V 12AH	12.8V 18AH	12.8V 24AH	18V 70W 12.8V 30AH	18V 80W 12.8V 36AH	25.6V 24AH	25.6V 30AH	25.6V 36AH			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time	12.8V 12AH 153.6WH	12.8V 18AH 230.4WH	12.8V 24AH 307.2WH	18V 70W 12.8V 30AH 384WH	18V 80W 12.8V 36AH 460.8WH	25.6V 24AH 614.4WH	25.6V 30AH 768WH	25.6V 36AH 921.6WH			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs	18V 80W 12.8V 36AH 460.8WH	25.6V 24AH 614.4WH 6.5Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs	18V 80W 12.8V 36AH 460.8WH 6.1Hrs	25.6V 24AH 614.4WH 6.5Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti	18V 80W 12.8V 36AH 460.8WH 6.1Hrs 7.2hrs	25.6V 24AH 614.4WH 6.5Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Battery voltage(AH) Li-ion Battery(WH)	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti  -10°C to 50°C	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti  -10°C to 50°C  -20°C to 45°C	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle (14°F to 122°F)	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti  -10°C to 50°C  -20°C to 45°C	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  ('-4°F to 113°F)  OT or remote control on	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti  -10°C to 50°C  -20°C to 45°C  WM optional, custom I	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  ('-4°F to 113°F)  OT or remote control on	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifespan	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C -20°C to 45°C  WM optional, custom I  Operate 2~3 rainy days	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  ('-4°F to 113°F)  OT or remote control on under intelligent mode	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifespan  Warranty	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Operate 2°3 rainy days	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  C(-4°F to 113°F)  OT or remote control on under intelligent mode	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifespan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifespan  Warranty  Certification	12.8V 12AH 153.6WH 4.2Hrs	12.8V 18AH 230.4WH 4.8Hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Operate 2°3 rainy days	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  C-(-4°F to 113°F)  OT or remote control on under intelligent mode	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs	25.6V 30AH 768WH 6.8Hrs	25.6V 36AH 921.6WH 6.5Hrs 7.2Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifespan  Warranty  Certification  Product Size	12.8V 12AH 153.6WH 4.2Hrs 7.1hrs	12.8V 18AH 230.4WH 4.8Hrs 7.1hrs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs  MPPT/P	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Departe 2°3 rainy days  L90B10 - 10000 as standard (Warranty  E/FCC/RoHs,For other or  1210°366°106 mm /	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  3.(-4°F to 113°F)  OT or remote control on under intelligent mode  30 hrs, @Tq 25°C  extension to 5 years on ertificates please reque	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs  request 1  request 1060*550*110 mm /	25.6V 30AH 768WH 6.8Hrs 7.2Hrs	25.6V 36AH 921.6WH 6.5Hrs 7.2Hrs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifespan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifespan  Warranty  Certification  Product Size  Net Weight	12.8V 12AH 153.6WH 4.2Hrs 7.1hrs 7.1hrs 750*366*106 mm / 29.5*14.4*4.2 inches	12.8V 18AH 230.4WH 4.8Hrs 7.1hrs  910*366*106 mm / 35.8*14.4*4.2 inches	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs  MPPT/P  (1080*366*106 mm / 42.5*14.4*4.2 inches	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Deparate 2°-3 rainy days  L90B10 - 10000 as standard (Warranty  E/FCC/RoHs,For other cc  1210*366*106 mm / 47.6*14.4*4.2 inches	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle (14°F to 122°F)  C-4°F to 113°F)  OT or remote control or under intelligent mode  00 hrs, @Tq 25°C  extension to 5 years on ertificates please reque  1345°366°106 mm / 53.0°14.4°4.2 inches	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs  request !  1060*550*110 mm/ 41.7*21.7*4.3 inches	25.6V 30AH 768WH 6.8Hrs 7.2Hrs  1145*550*110 mm/ 45.1*21.7*4.3 inches	25.6V 36AH 921.6WH 6.5Hrs 7.2Hrs  1390*550*110 mm 54.7*21.7*4.3 inche 24kg / 52.9 lbs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifespan  Warranty  Certification  Product Size  Net Weight  Carton Size	12.8V 12AH 153.6WH 4.2Hrs 7.1hrs  7.1hrs  750*366*106 mm/ 29.5*14.4*4.2 inches 10kg / 22.0 lbs	12.8V 18AH 230.4WH 4.8Hrs 7.1hrs  910*366*106 mm / 35.8*14.4*4.2 inches 12kg / 26.5 lbs	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs  MPPT/P  (1000*366*106 mm / 42.5*14.4*4.2 inches 14kg / 30.9 lbs	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Departe 2~3 rainy days  L90B10 - 10000 as standard (Warranty  E/FCC/RoHs,For other or  1210°366°106 mm / 47.6°14.4°4.2 inches  16kg / 35.3 lbs  1325°440°195 mm /	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  3.(-4°F to 113°F)  Of or remote control on under intelligent mode  20 hrs, @Tq 25°C  extension to 5 years on ertificates please reque  1345°366°106 mm / 53.0°14.4°4.2 inches  18kg / 39.7 lbs  1460°440°195 mm /	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs  request 1060*550*110 mm / 41.7*21.7*4.3 inches 20kg / 44.1 lbs 1180*640*240mm /	25.6V 30AH 768WH 6.8Hrs 7.2Hrs  1145*550*110 mm/ 45.1*21.7*4.3 inches 22kg / 48.5 lbs	25.6V 36AH 921.6WH 6.5Hrs 7.2Hrs 1390*550*110 mm 54.7*21.7*4.3 inche 24kg / 52.9 lbs			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature	12.8V 12AH  153.6WH  4.2Hrs  7.1hrs  7.1hrs  750*366*106 mm/ 29.5*14.4*4.2 inches  10kg / 22.0 lbs  1025*440*195 mm/ 40.4*17.3*7.7 inches	12.8V 18AH 230.4WH 4.8Hrs 7.1hrs  910*366*106 mm/ 35.8*14.4*4.2 inches 12kg / 26.5 lbs 1025*440*195 mm/ 40.4*17.3*7.7 inches	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs  MPPT/P  (1 1080*366*106 mm / 42.5*14.4*4.2 inches 14kg / 30.9 lbs 1195*440*195 mm / 47.1*17.3*7.7 inches	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Operate 2°-3 rainy days  190B10 - 10000  as standard (Warranty 47.6*14.4*4.2 inches  16kg / 35.3 lbs  1325*440*195 mm / 52.2*17.3*7.7 inches	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  (-4°F to 113°F)  Of or remote control or under intelligent mode  00 hrs, @Tq 25°C  extension to 5 years on ertificates please reque  1345°366*106 mm / 53.0°14.4°4.2 inches  18kg / 39.7 lbs  1460°440*195 mm / 57.5°17.3°7.7 inches	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs  7.2Hrs  request 1. 1060*550*110 mm/ 41.7*21.7*4.3 inches 20kg / 44.1 lbs 1180*640*240mm/ 46.5*25.2*9.5 inches	25.6V 30AH 768WH 6.8Hrs 7.2Hrs  1145*550*110 mm/ 45.1*21.7*4.3 inches 22kg / 48.5 lbs 1265*640*240mm / 49.8*25.2*9.5 inches	25.6V 36AH  921.6WH  6.5Hrs  7.2Hrs  1390*550*110 mm 54.7*21.7*4.3 inche  24kg / 52.9 lbs  1510*640*240mm, 59.5*25.2*9.5 inche			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifes pan  Warranty  Certification  Product Size  Net Weight  Carton Size  Gross Weight	12.8V 12AH  153.6WH  4.2Hrs  7.1hrs  7.1hrs  750*366*106 mm / 29.5*14.4*4.2 inches  10kg / 22.0 lbs  1025*440*195 mm / 40.4*17.3*7.7 inches  12kg / 26.5 lbs  3-5m	12.8V 18AH 230.4WH 4.8Hrs 7.1hrs  910*366*106 mm / 35.8*14.4*4.2 inches 12kg / 26.5 lbs 1025*440*195 mm / 40.4*17.3*7.7 inches	12.8V 24AH 307.2WH 5.0Hrs 7.1hrs  MPPT/P  3 years a  1080*366*106 mm / 42.5*14.4*4.2 inches 14kg / 30.9 lbs 1195*440*195 mm / 47.1*17.3*7.7 inches 16kg / 35.3 lbs 5-7m	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Derate 2~3 rainy days  L90810 - 10000 as standard (Warranty  L70846*106 mm / 47.6*14.4*4.2 inches  16kg / 35.3 lbs  1325*440*195 mm / 52.2*17.3*7.7 inches  18kg / 39.7 lbs  5-7m	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14*F to 122*F)  3.(-4*F to 113*F)  OT or remote control on under intelligent mode  20 hrs, @Tq 25*C  extension to 5 years on ertificates please reque  1345*366*106 mm/ 53.0*14.4*4.2 inches  18kg / 39.7 lbs  1460*440*195 mm/ 57.5*17.3*7.7 inches  20kg / 44.1 lbs  6-8m	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs 7.2Hrs 1 request 1.1. 1 1060*550*110 mm / 41.7*21.7*4.3 inches 20kg / 44.1 lbs 1180*640*240mm / 46.5*25.2*9.5 inches 22kg / 48.5 lbs 7-9m	25.6V 30AH 768WH 6.8Hrs 7.2Hrs  1145*550*110 mm/ 45.1*21.7*4.3 inches 22kg / 48.5 lbs 1265*640*240mm/ 49.8*25.2*9.5 inches 24kg / 52.9 lbs 8-10m	25.6V 36AH  921.6WH  6.5Hrs  7.2Hrs  1390*550*110 mm, 54.7*21.7*4.3 inche 24kg / 52.9 lbs  1510*640*240mm, 59.5*25.2*9.5 inche 26kg / 57.3 lbs  8-12m			
Photovoltaic panel  Solar panel voltage(W)  Battery voltage(AH)  Li-ion Battery(WH)  Charing Time  Run Time(@full power)  Battery lifes pan  Ambient Temperature  Storage Temperature  Control system  Maximum Autonomy  Others  Lifes pan  Warranty  Certification  Product Size  Net Weight  Carton Size  Gross Weight  Recommend installation height	12.8V 12AH  153.6WH  4.2Hrs  7.1hrs  7.1hrs  750*366*106 mm / 29.5*14.4*4.2 inches  10kg / 22.0 lbs  1025*440*195 mm / 40.4*17.3*7.7 inches  12kg / 26.5 lbs  3-5m	12.8V 18AH 230.4WH 4.8Hrs 7.1hrs  7.1hrs  910*366*106 mm / 35.8*14.4*4.2 inches 12kg / 26.5 lbs 1025*440*195 mm / 40.4*17.3*7.7 inches 14kg / 30.9 lbs 4-7m  Road & street, resident	12.8V 24AH  307.2WH  5.0Hrs  7.1hrs  MPPT/P  (0  3 years :  1080*366*106 mm / 42.5*14.4*4.2 inches  14kg / 30.9 lbs  1195*440*195 mm / 47.1*17.3*7.7 inches  16kg / 35.3 lbs  5-7m  ial area, garden, parks, ong-term storage, it is a	18V 70W  12.8V 30AH  384WH  5.7Hrs  7.2hrs  >2000 ti -10°C to 50°C  -20°C to 45°C  WM optional, custom I  Operate 2°3 rainy days  L90B10 - 10000 as standard (Warranty E/FCC/RoHs, For other or  1210°366°106 mm/ 47.6°14.4°4.2 inches  16kg / 35.3 lbs  1325°440°195 mm/ 52.2°17.3°7.7 inches  18kg / 39.7 lbs  5-7m  parking lot, industrial advisable to first fully	18V 80W  12.8V 36AH  460.8WH  6.1Hrs  7.2hrs  mes cycle  (14°F to 122°F)  2.(-4°F to 113°F)  Of or remote control on under intelligent mode  20 hrs, @Tq 25°C  extension to 5 years on ertificates please reque  1345°366*106 mm/ 53.0°14.4°4.2 inches  18kg / 39.7 lbs  1460°440*195 mm/ 57.5°17.3°7.7 inches  20kg / 44.1 lbs  6-8m  and commercial parks,	25.6V 24AH 614.4WH 6.5Hrs 7.2Hrs  request 1. 1. 1060*550*110 mm/ 41.7*21.7*4.3 inches 20kg / 44.1 lbs 1180*640*240mm/ 46.5*25.2*9.5 inches 22kg / 48.5 lbs 7-9m railway & station side	25.6V 30AH 768WH 6.8Hrs 7.2Hrs  1145*550*110 mm/ 45.1*21.7*4.3 inches 22kg / 48.5 lbs 1265*640*240mm / 49.8*25.2*9.5 inches 24kg / 52.9 lbs 8-10m , riverside & jogging tra	25.6V 36AH  921.6WH  6.5Hrs  7.2Hrs  1390*550*110 mm, 54.7*21.7*4.3 inche 24kg / 52.9 lbs  1510*640*240mm, 59.5*25.2*9.5 inche 26kg / 57.3 lbs  8-12m			

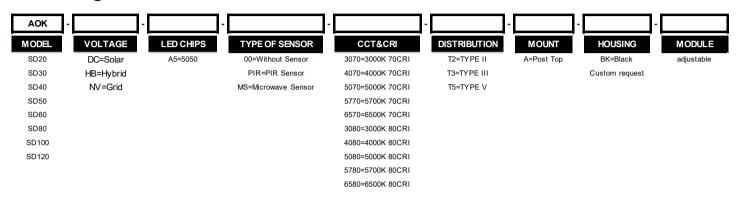
# **Working Way**



Solar panels receive sunlight during the day to generate electricity, which is charged by a controller to a battery; When the solar panel voltage is lower than the set value (rated 5V), the controller will stop charging and drive the LED to emit light.

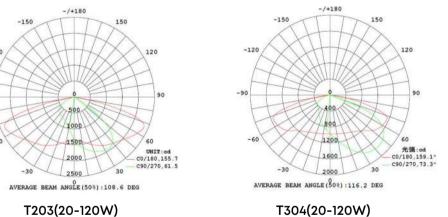
When the battery voltage is lower than the set value, the power supply will switch to mains power, and when the voltage is higher than the set value, it will switch to battery power. The standard configuration does not include mains complementary function.

# **Ordering Information**

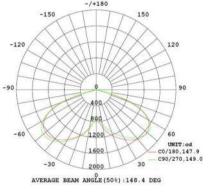


#### Photometry

LED model: 5050 (adjustable)



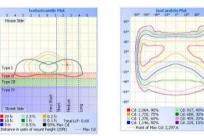
T304(20-120W)

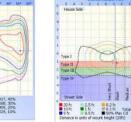


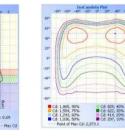
T502(20-120W)

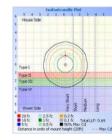
### Illuminance Diagram

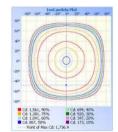
#### LED model: 5050 (adjustable)











T203(20-120W)

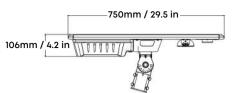
T304(20-120W)

T502(20-120W)

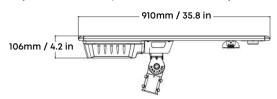
#### **I** SD Series Specification Sheet

### Dimensions (Adjustable module)

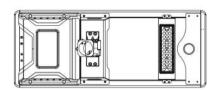
SD20-20W (LED model: 5050; Distribution: T2/T3/T5)



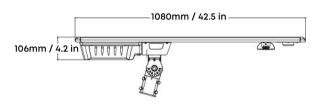
SD30-30W (LED model: 5050; Distribution: T2/T3/T5)

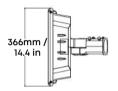


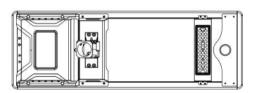




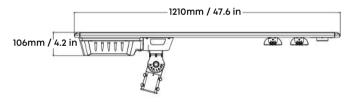
SD40-40W (LED model: 5050; Distribution: T2/T3/T5)

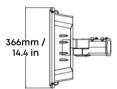


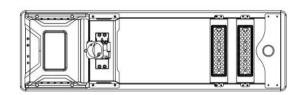




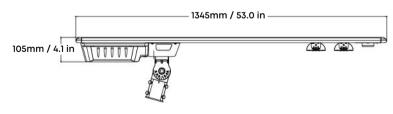
SD50-50W (LED model: 5050; Distribution: T2/T3/T5)

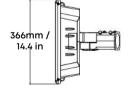


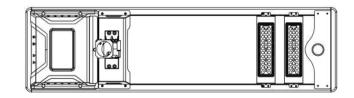




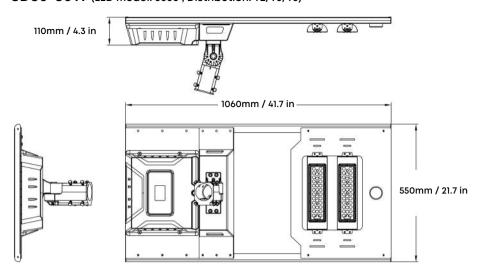
SD60-60W (LED model: 5050; Distribution: T2/T3/T5)



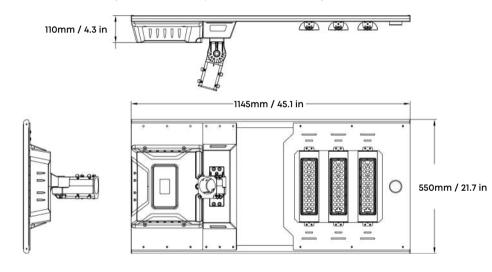




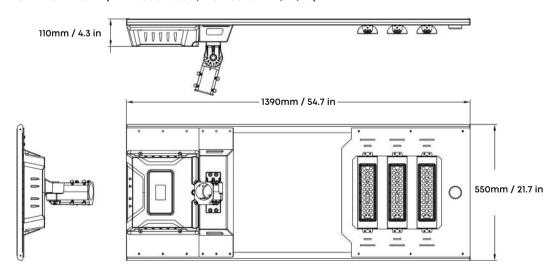
#### SD80-80W (LED model: 5050; Distribution: T2/T3/T5)



#### **SD100-100W** (LED model: 5050; Distribution: T2/T3/T5)



#### **SD120-120W** (LED model: 5050; Distribution: T2/T3/T5)





# **Illuminate Your Future**



3 Year Limited Warranty, 5 Year Preferred Warranty. Please consult with our sales for detailed agreement.

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