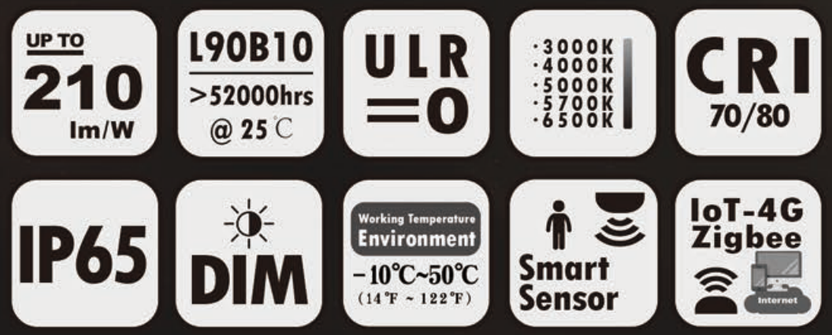
Energy Solutions
LED
COMMMERCIAL AND INDUSTRIAL

ISD ALL IN ONE SOLAR STREET LIGHT

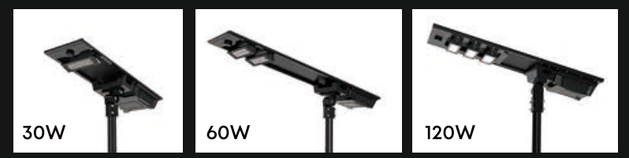
> Features of SD Series

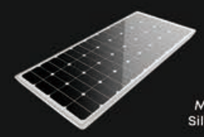
Outdoor solar lighting systems use solar cells which convert sunlight into electricity. Electricity is stored in batteries for use at night.
SD series LED solar lights are easy to install and virtually maintenance free. Using them won’ t increase your electric bill.

• SD Solar LED Street Light features all in one design function, low profile design, with photocell sensor, Timing, dimming, intelligent power saving, microwave sensor or PIR sensor optional.
• **Power range: 30W /60W/ 120W;**
• Single side monocrystalline solar panel. Suitable for remote region, no-electric supply zone;
• Deep cycle battery, charge and discharge over 2000 times;
• Continuously work 2-3 rainy days in intelligent mode;
• **MPPT intelligent controller;**
• Die-casting aluminium housing, anti-corrosion coating;
• Easy battery replacement design;
• Ultra-high light efficiency, 10 watts equivalent to 20 watts of others at least;
• Accurate optical road lighting designs, adapt to various conditions with no waste of light. **ULOR=0%, no up-light pollution;**
• **Optical systems maintain an IP65 rating.**



Adjustable module

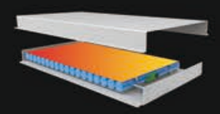




Integral Monocrystalline Silicon Solar Panel

Conversion Rate up to 30%

25 Years Lifespan



>2000 times
Lifespan Cycle
High quality LI-ion battery
Intelligent temperature control

3 5 ★★★★★

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

> Photometrics Design

Lumen efficiency > 210lm/W achieve higher illumination

High Efficiency

Long Lifespan

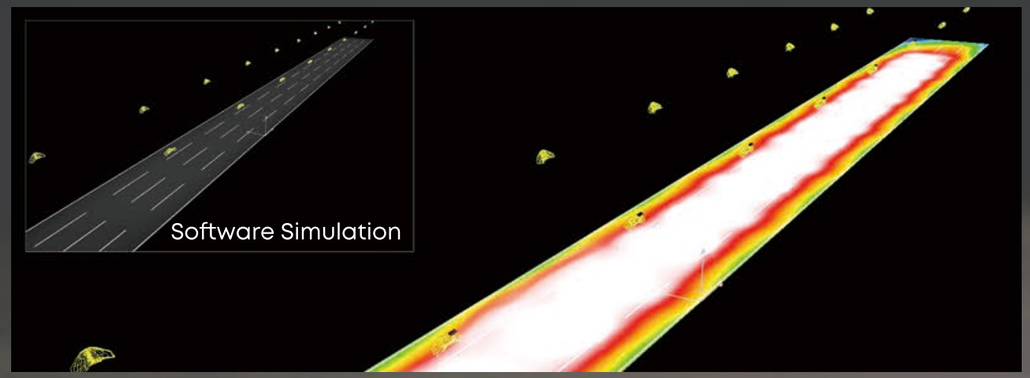
Less Calorific Value

Low Light Decay

Adjustable module (±45°)

Reinforced bracket: it can meet the requirements of 3G vibration strength test

- The light engine takes advantage of the latest generation of high efficiency LEDs and dedicated optics for professional applications.
- Combined with 2835/5050 LED chips provide lighting solutions from high-level special lights to very cost-effective but excellent quality luminaires.

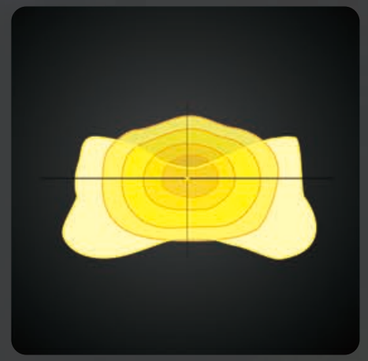


Distribution

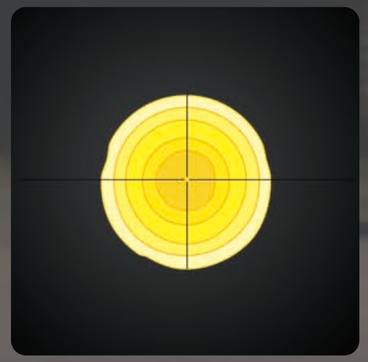
LED model:5050 (adjustable)

T203

T304



T502

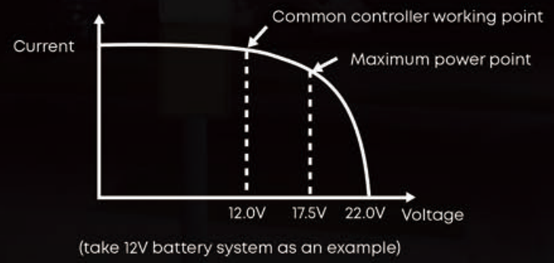


> Application Reference

- Road lighting
- Area lighting
- Perimeter lighting

Customizable Housing Color

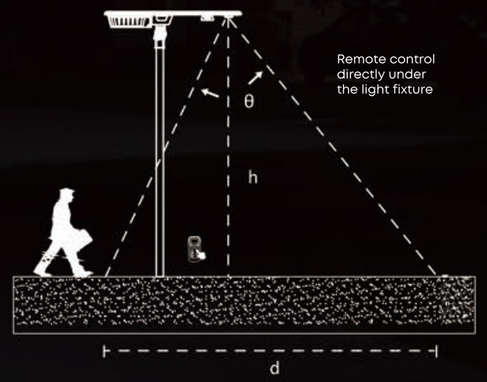
Advantages of controller



(take 12V battery system as an example)

1) Moving Track MPPT maximum power tracking technology is adopted to improve the tracking efficiency and speed by more than 20%;
2) UltraGreen power control technology with extremely low static power consumption and sleep current;
3) 10 time-periods programmable load power/time control;
4) Multiple intelligent power modes can be selected, and the load power can be automatically adjusted according to the battery power;
5) Multiple protection functions such as battery /PV reverse connection protection, LED short circuit/open circuit/power limit protection;
6) Aluminum metal housing, IP67 waterproof rating, can be used in a variety of harsh environments
7) Extensible IoT remote communication monitoring function;

Detection distance



*Remote control is optional

Remote control distance 5-8 meters, installation height and environment and other factors will affect the controller sensitivity, please refer to the actual field.
Note: Please do not place 2 or more lights within 12 meters at the same time while using the remote controller, receiving or sending may fail.

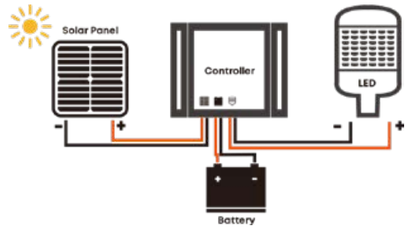
Inductive Type	θ (Angle)	h (Height of lamp rod)	d (Inductive width)
IR (Infrared)	60°	6-8m	6-10m
WB (Microwave)	65°	6-10m	7-10m

*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

Parameter Table

Electrical Data				
Model		**ISSA1G2-30XX**	**ISSA1G2-60XX**	**ISSA1G2-120XX**
Power		30W	60W	120W
Control Option		Photocell sensor, Timing, dimming, intelligent power saving, microwave sensor or PIR sensor.		
Work Mode		2H-100%; 4H-Detected: 60%, None: 20%; 6H-Detected: 40%, None: 10%		
Photometric Data				
LED model		5050=adjustable, Distribution: T2/T3/T5 optional		
Lens		Polycarbonate		
Efficacy (lm/W, Std. Dev. ±3%)@CCT=5700K, CRI>70Ra	5050	210lm/W	210lm/W	200lm/W
Luminous flux (lm, Std. Dev. ±10%)@CCT=5700K, CRI>70Ra	5050	6300lm	12600lm	24000lm
ULOR		= 0%, @ Luminaire inclination 0°		
CCT		3000K, 4000K, 5000K, 5700K, 6500K		
CRI		70Ra/80Ra optional		
Beam angle		5050=adjustable, Distribution(20W-120W):T203(60°*155°)/T304(75°*160°)/T502(150°*150°)		
Mechanical Data				
SCx (EPA) Fixed module		Top View: 0.400m² (4.31ft²) Side View: 0.072m² (0.78ft²) 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: 0.910m² (9.80ft²) Side View: 0.091m² (0.98ft²) Front View: 0.062m² (0.67ft²)
IP Rating		IP65, according to standard EN 60529		
Housing		Heavy-duty die-cast aluminum (EN AC-46100)+PA66		
Surface treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).		
Painting		Black, Custom request		
Mounting		Post Top		
Solar Panel Data				
Photovoltaic panel		Single side monocrystalline solar panel		
Solar panel voltage(W)		18V 50W	18V 80W	36V 150W
Battery voltage(AH)		12.8V 18AH	12.8V 36AH	25.6V 36AH
Li-ion Battery(WH)		230.4WH	460.8WH	921.6WH
Charing Time		4.8Hrs	6.1Hrs	6.5Hrs
Run Time(@full power)		7.1hrs	7.2hrs	7.2Hrs
Ambient Temperature		-10°C to 50°C (14°F to 122°F)		
Storage Temperature		-20°C to 45°C (-4°F to 113°F)		
Control system		MPPT/PWM optional		
Maximum Autonomy		Operate 2~3 rainy days under intelligent model.		
Others				
Lifespan		L90B10 > 52000h, @Ta 25°C		
Warranty		3 years (Warranty extension up to 5 years on request)		
Certification		CE/FCC/RoHs,For other certificates please request		
Product Size		910*366*106mm	1345*366*106mm	1390*550*110mm
Net Weight		12kg	18kg	24kg
Carton Size		1225*440*195mm	1460*440*195mm	1510*630*195mm
Gross Weight		14kg	20kg	26kg
Recommend installation height		4-7m	6-8m	8-12m
Application field		Urban and rural street		

Working Way



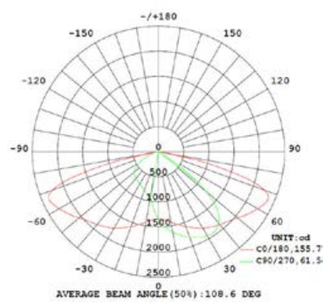
Solar panels receive sunlight during the day to generate electricity, which is charged by a controller to a battery; When the solar panel voltage is lower than the set value (rated 5V), the controller will stop charging and drive the LED to emit light.

Ordering Information

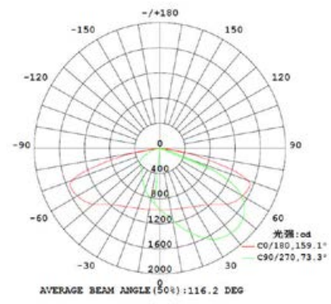
IS	-		-		-		-		-		-		-	
MODEL		**VOLTAGE**		**LED CHIPS**		**TYPE OF SENSOR**		**CCT&CRI**		**DISTRIBUTION**		**MOUNT**		**HOUSING**		**MODULE**
30W 60W 120W		NV1=12.8V DC NV2=25.6V DC		A5=5050		00=Without Sensor PIR=PIR Sensor MS=Microwave Sensor		3070=3000K 70CRI 4070=4000K 70CRI 5070=5000K 70CRI 5770=5700K 70CRI 6570=6500K 70CRI 3080=3000K 80CRI 4080=4000K 80CRI 5080=5000K 80CRI 5780=5700K 80CRI 6580=6500K 80CRI		T2=TYPE II T3=TYPE III T5=TYPE V		A=Post Top		BK=Black Custom request		adjustable

Photometry

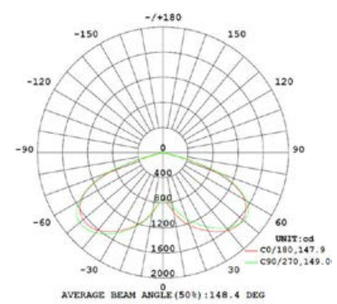
LED model: 5050 (adjustable)



T203 (20-120W)



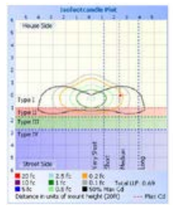
T304 (20-120W)



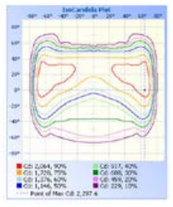
T502 (20-120W)

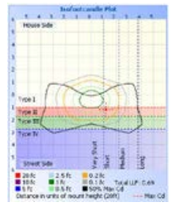
Illuminance Diagram

LED model: 5050 (adjustable)

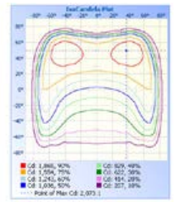


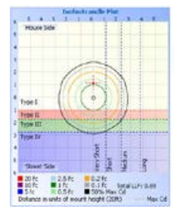
T203 (20-120W)





T304 (20-120W)





T502(20-120W)

SD Series Specification Sheet

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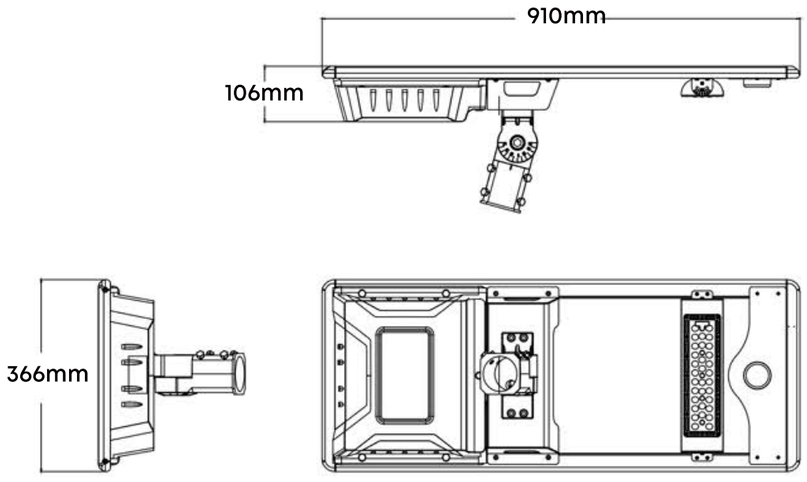
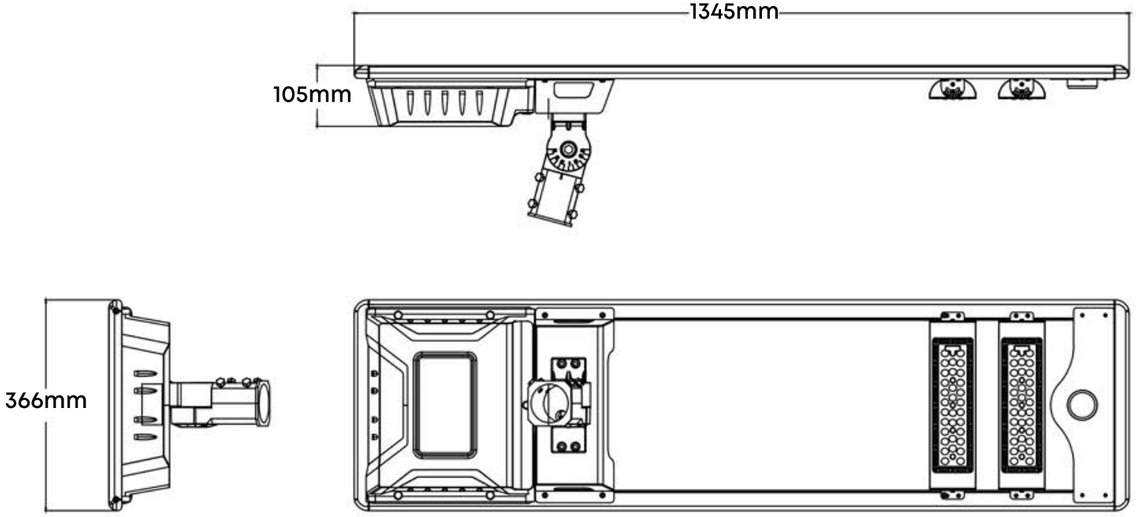
Dimensions (Adjustable module)

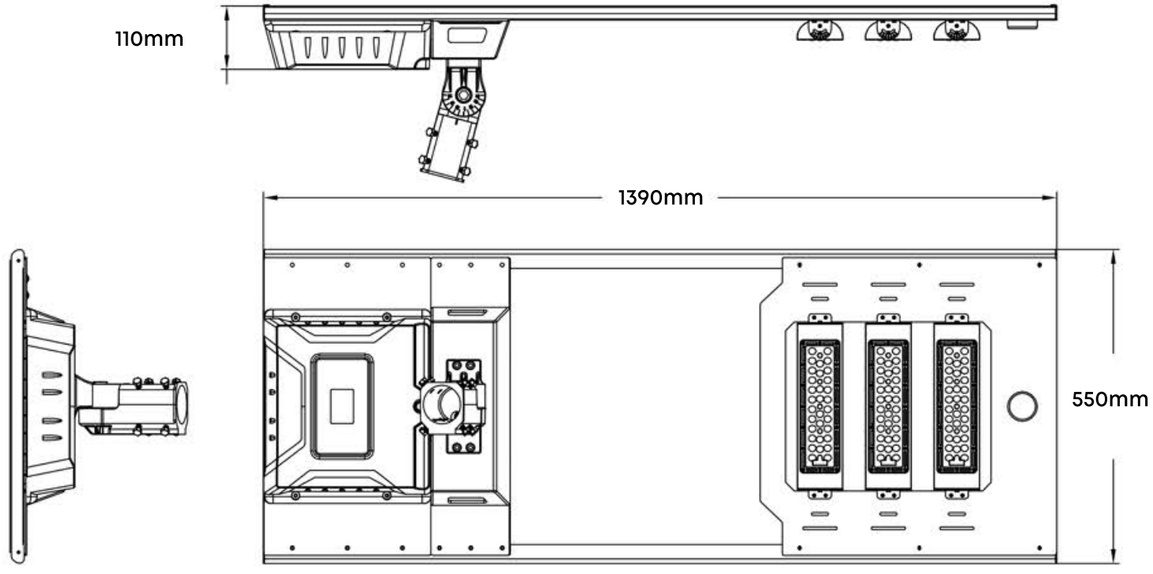
SD30-30W (LED model: 5050 ; Distribution: T2/T3/T5)



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



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



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