Road Smart

SOLAR SAILING LIGHT SERIES



www.roadsmartsolar.com



Unique Structure Design

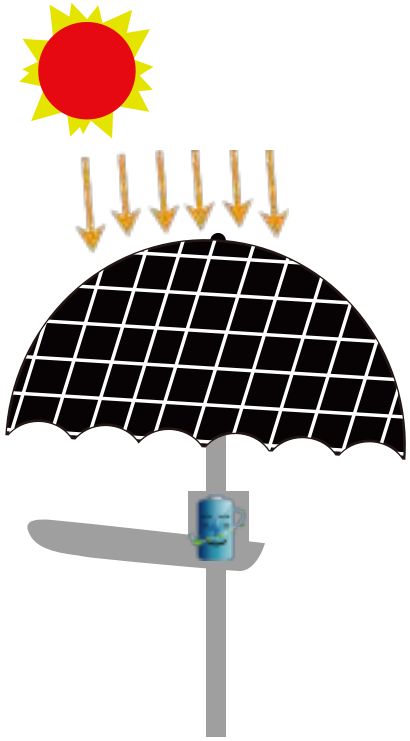


Solar Sailing Light Ⅱ

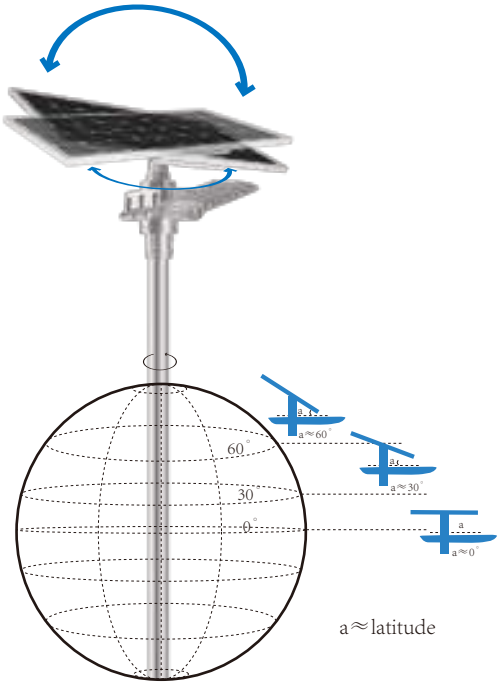


Solar Sailing Light Ⅲ

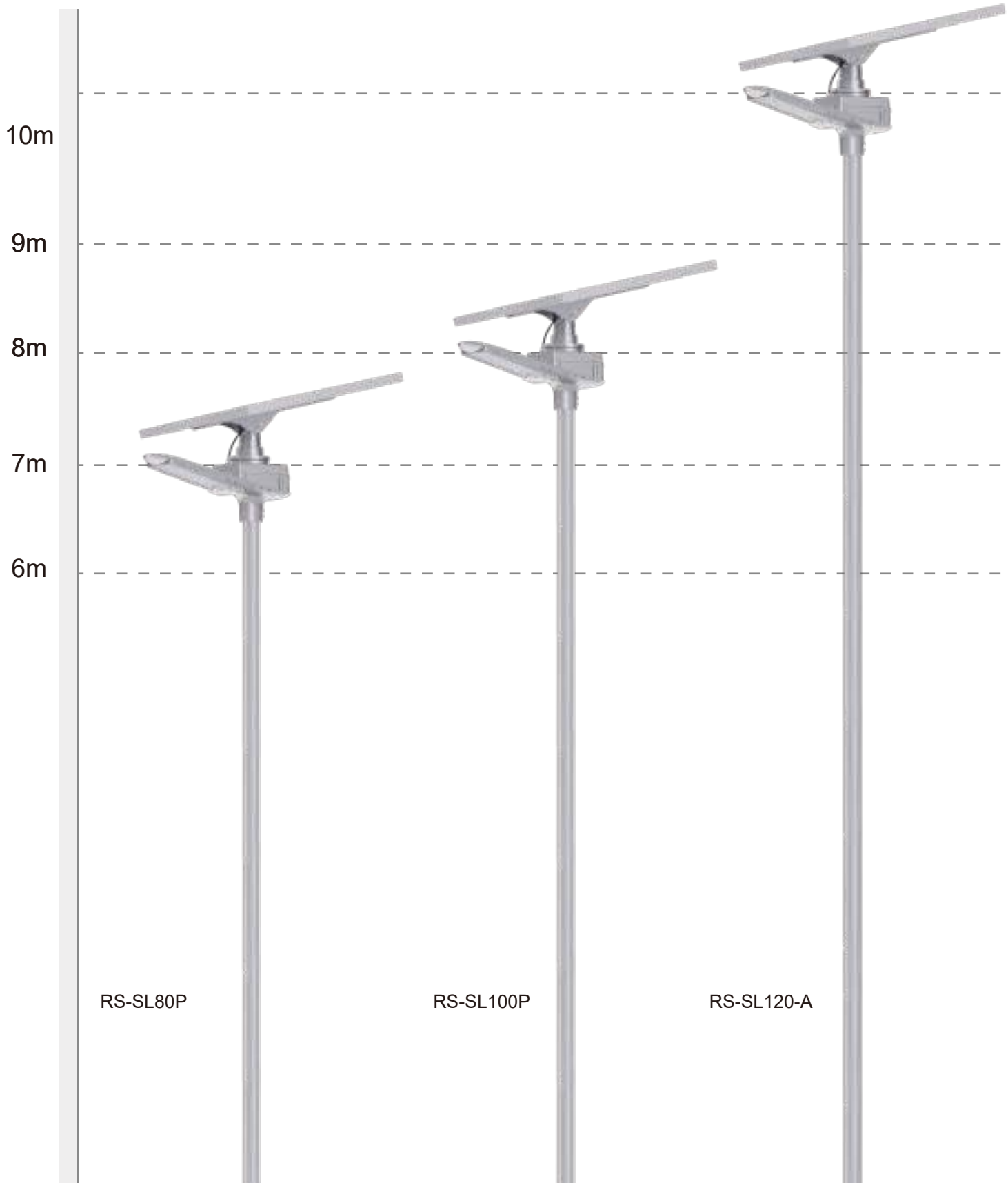
Solar panel looks like an umbrella to protect battery from high temperature and extend the lifetime. Perfectly solve heat dissipation.



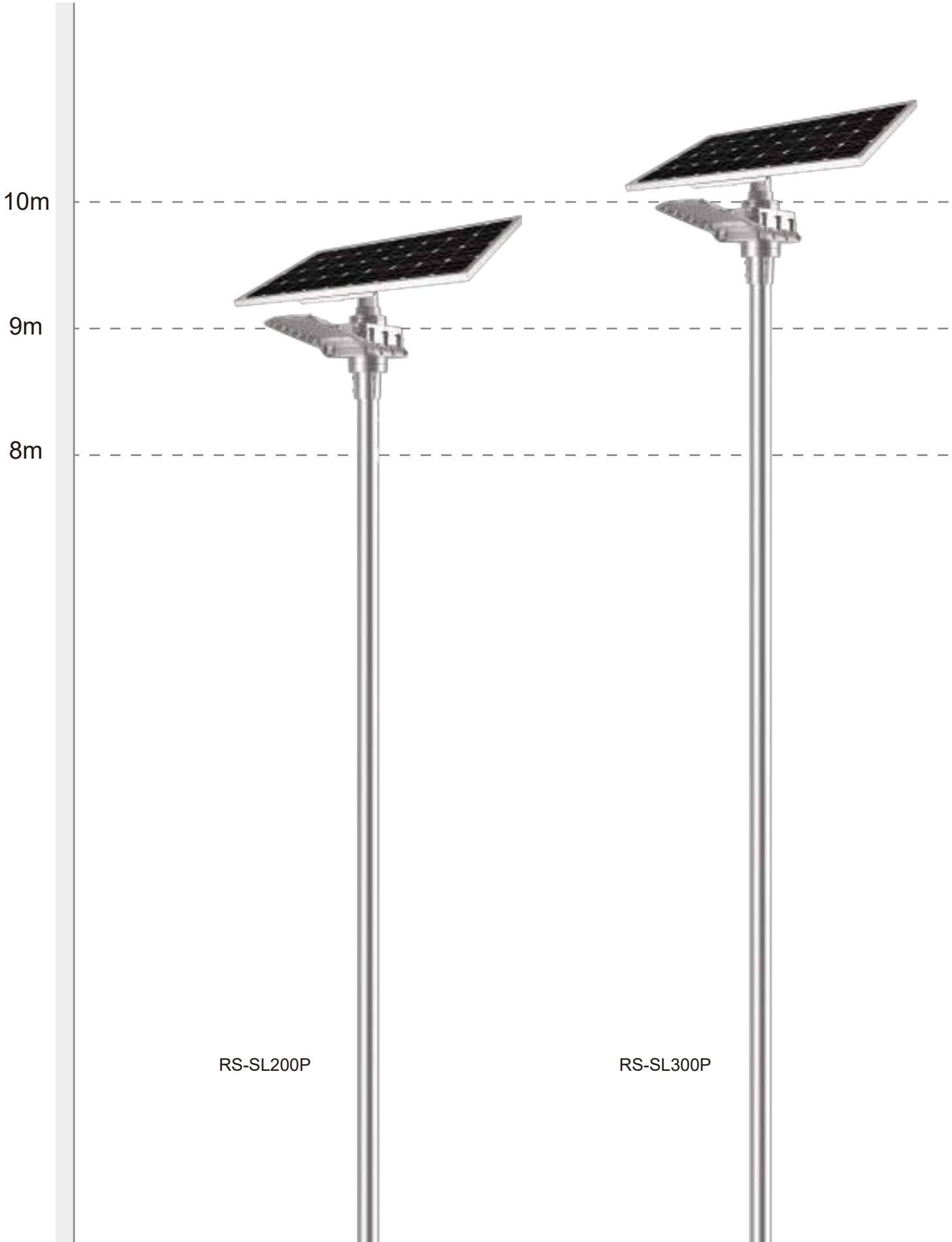
Solar panel can be adjustable manually in vertical and horizontal direction, ensure the maximum efficiency of solar energy.



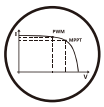
Light Post Installation Height Recommendation Diagram (Solar Sailing Light Ⅱ)



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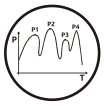


Core Technologies



MPPT Technology

MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking function which can increase the energy utilization rate by 15% to 20% than the PWM controller.



Multi-Peak MPPT

Road Smart new patent solar controller adopts multi-peak MPPT technology, which can timely track the maximum power point and improve the conversion efficiency of solar panels.



IPC 5.0 Technology

Through 10years' experience, Road Smart upgraded highly precise 5.0 version IPC technology (intelligent power control 5.0). It will intelligently detect recent weather conditions, reasonably plan the discharge power to achieve more rainy days.



Dual Low-power Consumption

4pins plug technology to enables transportation power consumption less than 0.05mA, and circuit protection technology to enables the sleep power consumption in long-term t ransportation of storage will be at uA level, realizing worry-free storage for two years.



ICD Technology (Intelligent Charge and Discharge)

Using Grade A LiFePO4 battery with excellent safety performance. Road Smart's unique current equalization and dual protection (software and hardware) enable the battery's capacity remains at 90% after 2000 cycles. Lifetime is 4 times longer than that of lead-acid batteries.



High Efficiency LED Chips

Using high efficiency 140pcs of 5050 LED chips, optimized brightness, single lumen value>190lm/w, with the aluminum chip base makes excellent heat dissipation.



Battery Program Upgraded

Embedded single string control technology. More stable and longer lifespan.



Intelligent Power Control

Embedded intelligent monitoring 5.0 system, AI intelligently detecting recent weather conditions, reasonably plan the discharge power to acheive more rainy days.

Remote Control

6 working modes

DEMO: No matter day or night, light "on" for 1 minute.
Only for test use

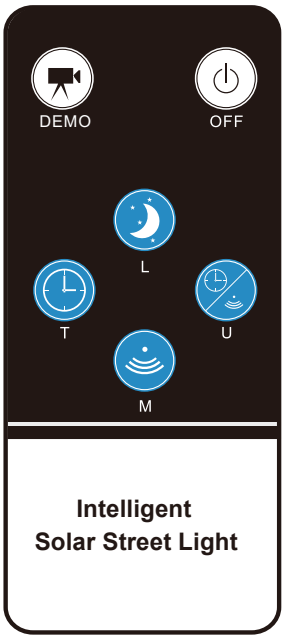
OFF: Light "off", no matter day or night

L: At night, 100%-2hrs, 60%-3hrs, 20%-dawn

T : At night,100%-3hrs, 50%-3hrs, 30%-2hrs:

M: At night, 100%-3hrs, 50%-3hrs

U: At night, 100%-3hrs, 50%-3hrs(Highlight mode)



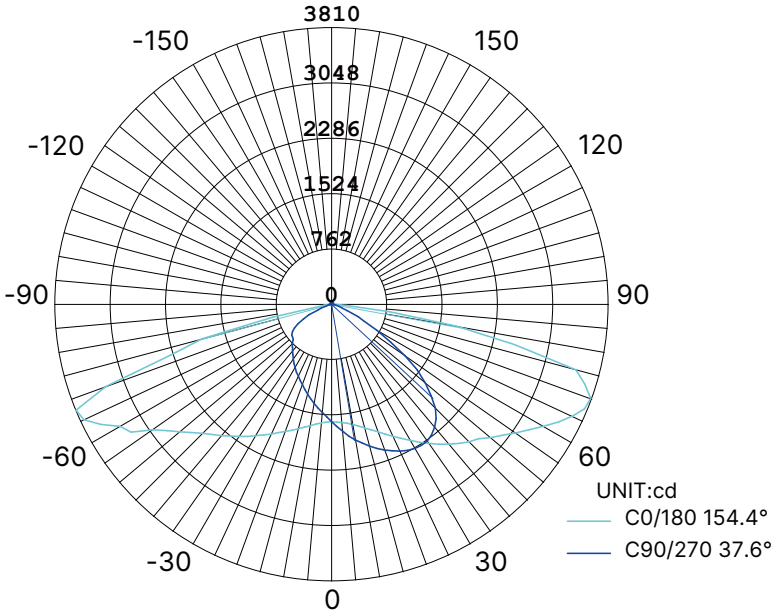
Note: 1. Default is L mode, can choose best mode according to different sunshine condition.
2. The three LED indicator lights will twinkle if modes changing successfully.
3. Once a certain mode was set successfully, it will be reserved until you change other modes with remote control.
4. U Highlight mode: Increase 30% on the original basis, mean 3H-130%, 3H-80%.

Indicator light status instructions

LED	Indications	Status	Functions
Blue	Charging indication	Long-term On	During the day, it's not charging
		Slow twinkling	Be charging
		Long-term Off	Night
Red	Battery indication	Long-term On	Battery works normally
		Long-term Off	Battery is not connected/No power
		Fast twinkling	Battery is over discharged
		Slow twinkling	Battery full charged
Green	Load indication	Long-term On	Load is on
		Long-term Off	Load is off

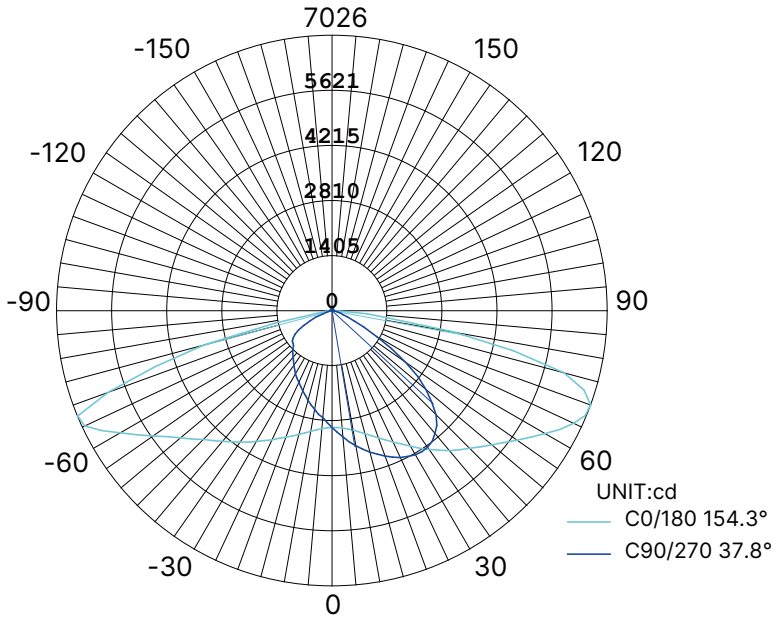
Light Distribution

Luminous intensity distribution curves



AVERAGE BEAM ANGLE(50%): 96.0 DEG

Solar Sailing Light Ⅱ



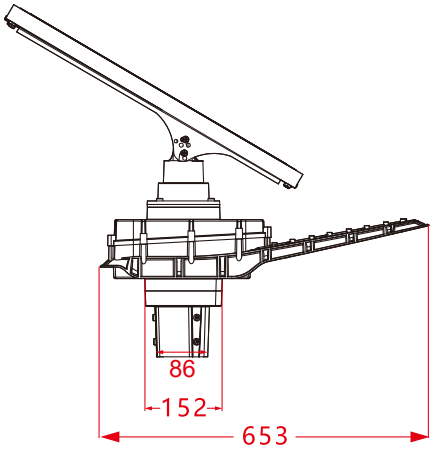
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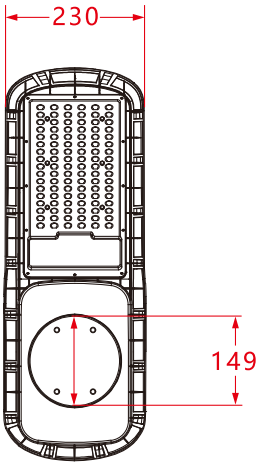
Solar Sailing Light Ⅲ

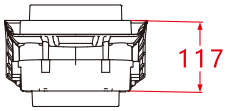
Product Dimension

Lamp Holder Size

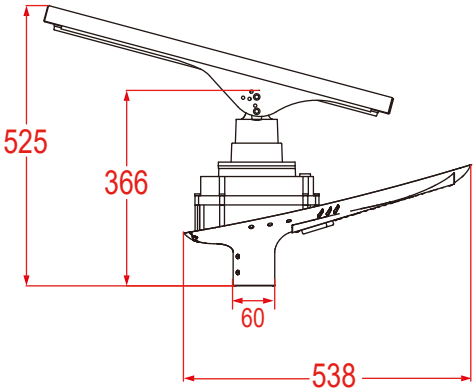
Solar Sailing Light III

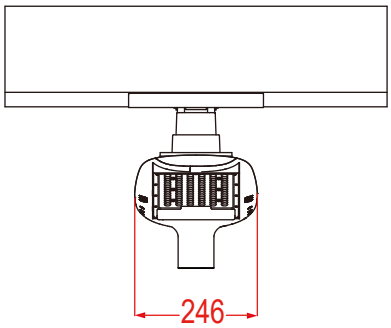


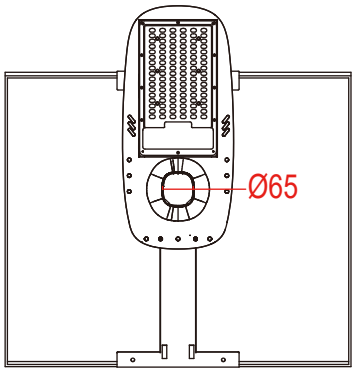




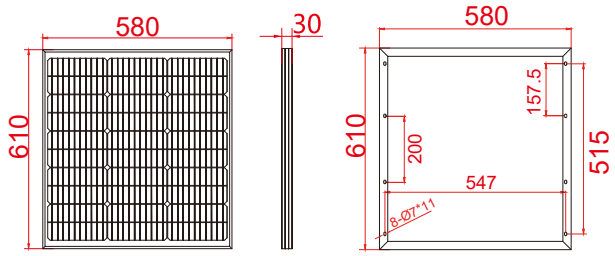
Solar Sailing Light II



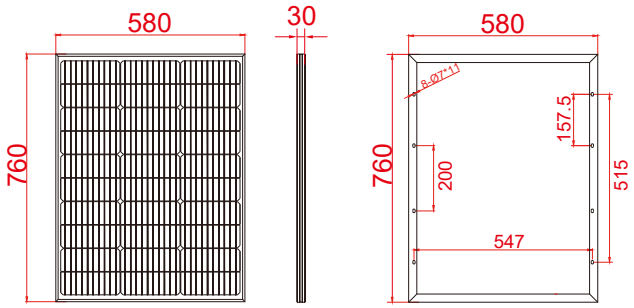




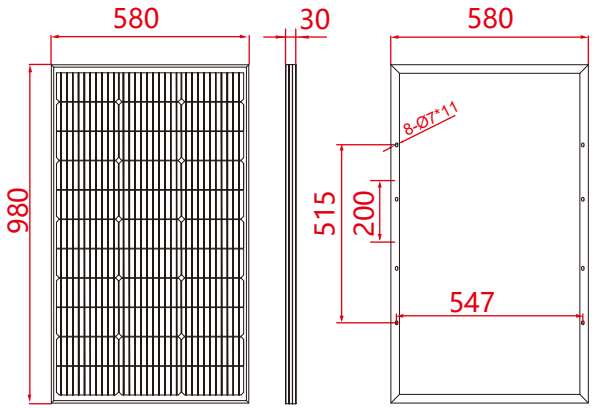
Solar panels



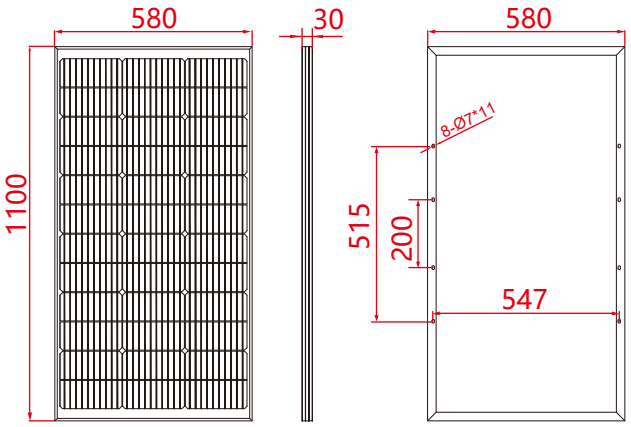
60W/6V



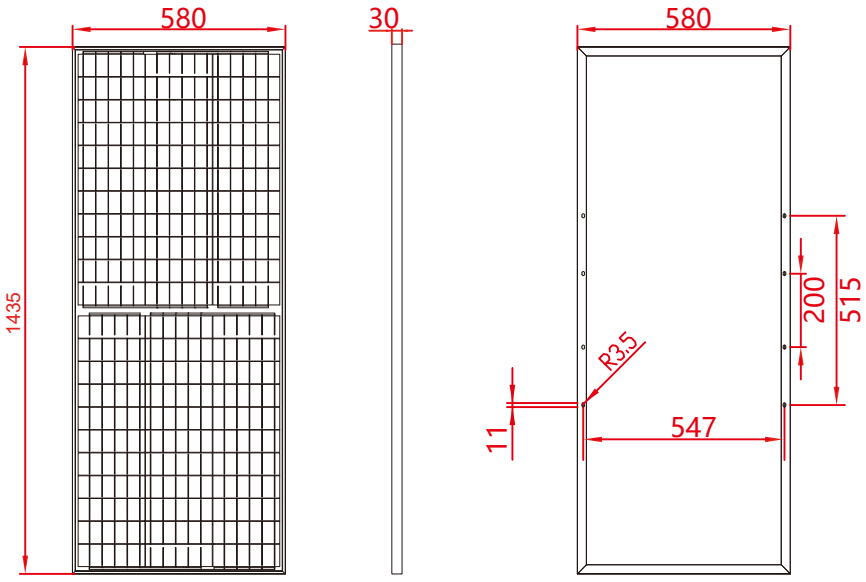
80W/18V



100W/18V



120W/18V



150W/18V

Parameter

Technical parameter

Type	RS-SL80P	RS-SL100P	RS-SL120-A	RS-SL200P	RS-SL300P
Lamp Head					
Light output	30W	40W	60W	80W	100W
LED chip	140pcs(3030)			140pcs(5050)	
Luminous flux	4100-4300lm	6000-6300lm	8500-9000lm	11900-12600lm	13600-14400lm
Beam angle	155°*55°				
Lifespan	50000hrs				
IP Rating	IP65				
Working temperature	-20°C~60°C (Charge above 0°C)				
Color temperature	3000-7500K				
CRI	Ra≥70				
Solar Panel					
Power	60W	80W	100W	120W	150W
Voltage	6V	18V			
Solar cell efficiency	19%-22%				
Material	Monocrystalline silicon				
Battery					
Capacity	192WH	256WH	384WH	512WH	640WH
Lighting time (full charged)	5-7 rainy days				
Lithium battery	LiFePO4				
Installation					
Top diameter of pole	60 mm			76 mm	
Mounting height	6-7M	7-8M	8-10M	8-10M	
Installation spacing	20-40M				

Product Installation



Solar panel



lamp holder



Sleeve



Bracket

Integrated Design Concept



1: Solar panel assembly and fixation with 4 screws



2: Install and fix the solar panel bracket with 4 screws



3: Connect the solar panel to the lamp body with 3 screws



4: The lamp body and the lamp pole are connected and fixed with 4 screws

Packing

Type		Qty/ctn	Box Size(L*W*H)	Gross Weight
RS-SL80P	Lamp body	2pcs/ctn	680*410*280mm	14.54
	60W panel	2pcs/ctn	670*690*80mm	7.48
RS-SL100P	Lamp body	2pcs/ctn	680*410*280mm	15.10
	80W panel	2pcs/ctn	840*660*80mm	10.62
RS-SL120-A	Lamp body	2pcs/ctn	680*410*280mm	17.46
	100W panel	2pcs/ctn	1070*660*80mm	12.06
RS-SL200P	Lamp body	1pc/ctn	720*310*280mm	11.72
	120W panel	2pcs/ctn	1190*660*80mm	13.64
RS-SL300P	Lamp body	1pc/ctn	720*310*280mm	11.72
	150W panel	1pc/ctn	1525*660*65mm	9.75

The packaging as shown below is for reference only, the actual packaging is subject to the specific product.

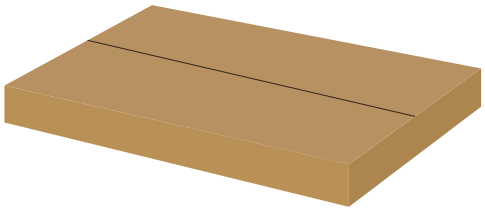


(Solar Sailing Light Ⅱ)



(Solar Sailing Light Ⅲ)

Lamp body packing





Solar panel packing(100W/150W)

Application





