



- POWER: 65W /100W
- LiFePO4 Battery 1280WH
- MPPT smart control system
- 100% Brightness the whole night available

SOLAR STAR LIGHT - PRO

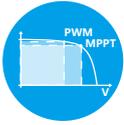
Integrated Structure Design

Road Smart Modular design achieved the goal of simply maintain and replace the important components like battery & controller. It improves the maintenance efficiency of end user and avoids miss operation, saving cost on maintenance and transportation.

Besides, Road Smart is the first brand which emphasized strength safety analysis in the solar street light industry, ensure the safety and reliability of each solar street lights.

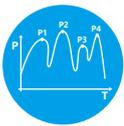


Core Technologies



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.



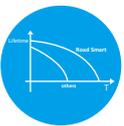
IPC 5.0 Technology

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.



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.



HPCV Technology

Road Smart self-developed patent solar controller adopts LPCV technology (High-precision Constant Voltage Management) brings lower ripple, improves circuit efficiency, and extend lifetime of circuit and battery.



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 transportation of storage will be at uA level, realizing worry-free storage for two years.

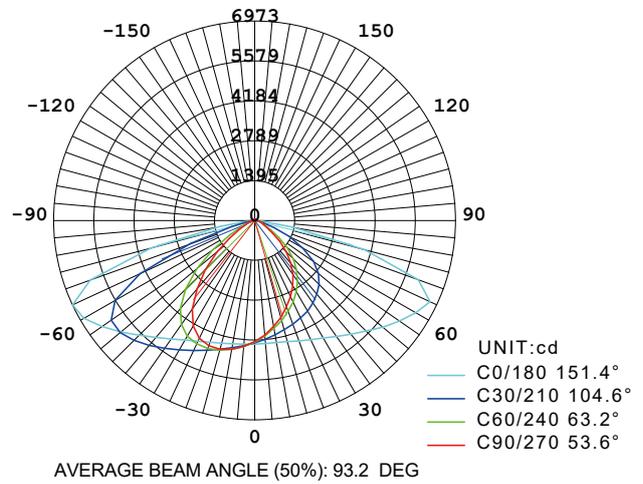
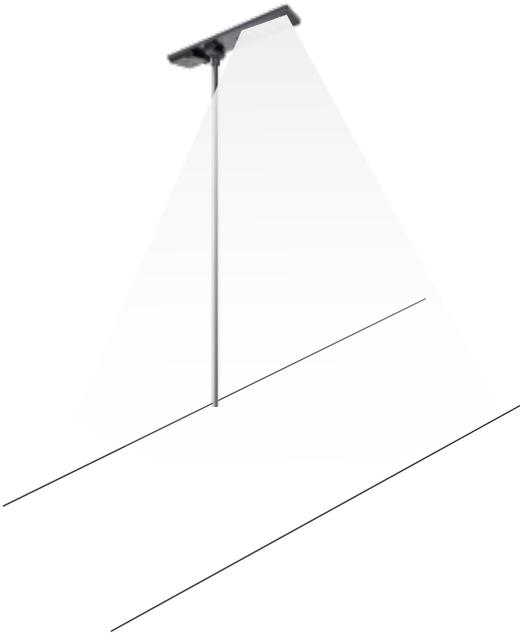


ITC Technology (Intelligent Temperature Control)

Automatically Switch off function by software at temperature limit to protect battery from long time high temperature working. Heating up function to protect battery at Low temperature atmosphere. Extend longer lifetime of the whole system.

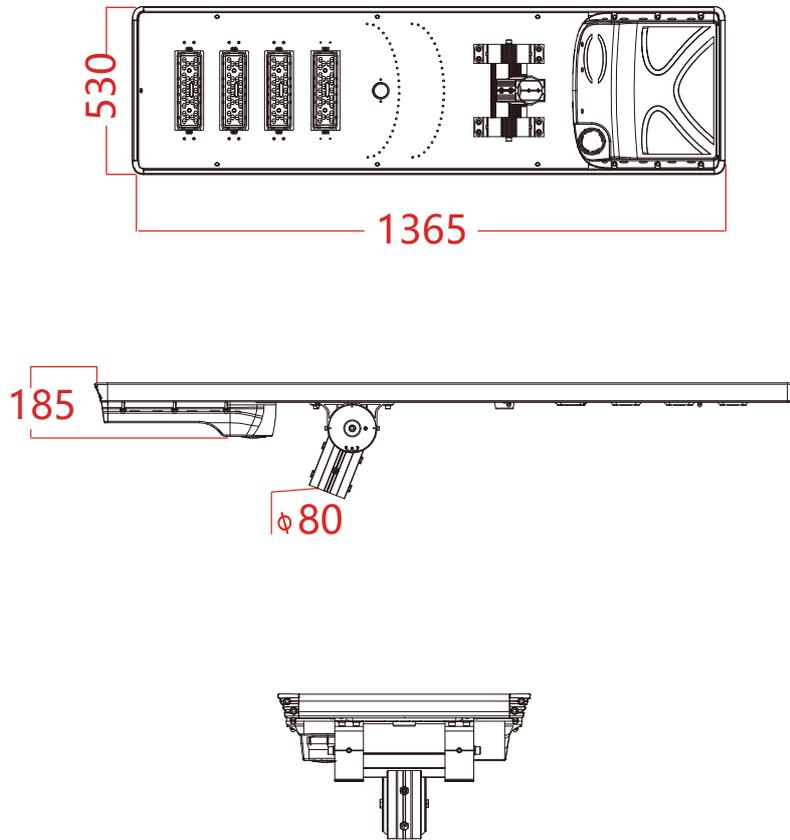
Light Distribution

Luminous intensity distribution curves.

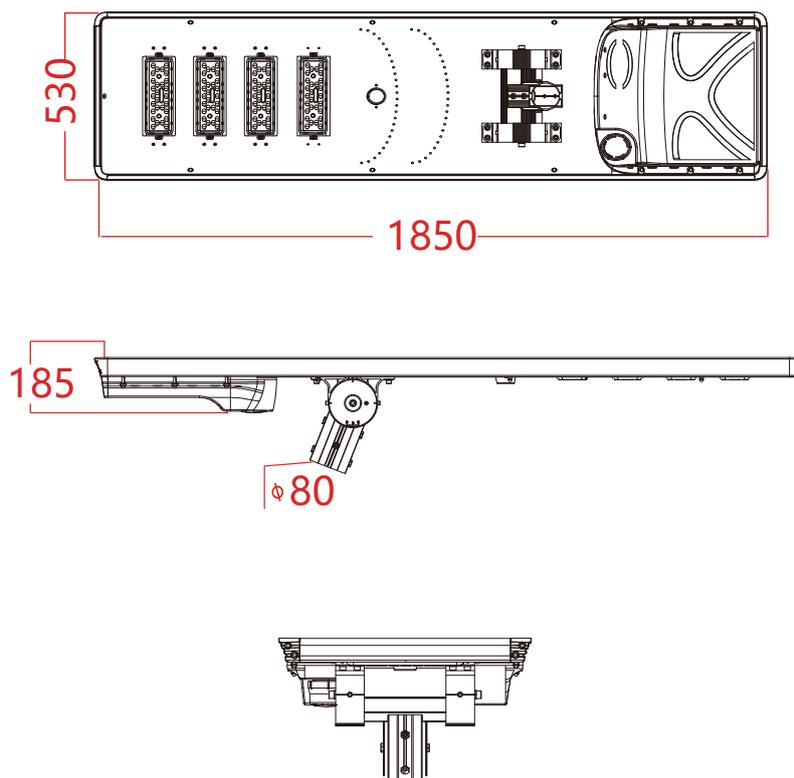


Dimension

SP-110



SP-165



Parameter

Type	SP-110	SP-165
LIGHT		
Light output	65W	100W
LED chip	SMD3030/400pcs	
LED Brand	Bridgelux	
IP Rating	IP65	
Flux @ CCT 5700-6000K	10400LM	16000LM
CRI	70 / 80	
Beam angle	160°*55°	
Light distribution	Bat-wing Type II	
Shell material	Aluminum alloy	
Working temperature	-20°C ~ 60°C	
Lifespan	50000hrs	
BATTERY		
Capacity	640WH	1280WH
Lighting time @ Full power	11.82hrs	15.36hrs
Lighting time @ Dimming/Power control	3-5days	
Lithium battery	LiFePO4	
Charging cycles	>2000times	
SOLAR PANEL		
Power	110W	160W
Voltage	18V	
Type	Monocrystalline silicon	
Efficiency	22%	
Lifespan	>25years	
CONTROLLER		
Charging method	Multi-peak MPPT	
Working modes	100%-2hrs,70%-2hrs,30%-dawn (Compound with photocell sensor, dimming, intelligent power control saving)	
Circuit protection	High / Low temperature protections	
	Short circuit & Open load protections	
	Overcharging & Overdischarging protections	
INSTALLATION		
Top diameter	76mm	
Height	7-8m	11-12m
Spacing	30m	40m
WARRANTY	3years on all components - option to extend	

Packing

Type	Qty/ctn	Box Size(L*W*H)	Net Weight	Gross Weight
SP-110	1set/ctn	1385*540*233mm		
SP-165	1set/ctn	1865*540*233mm		42.29

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



----- 1set/ctn(SP-110) -----



1set/ctn(SP-165)

Application



