

# P5

## Solar Home Lighting System

# PBOX®



Solar Powered



LED



Lithium Battery



USB Charger

If you live in areas without electricity and are tired of using the harmful kerosene or having poor light from candles;

If you want to reduce your electricity bills and save costs with hard wiring;

If you looking for an indoor lighting solution which can also charge your mobile phone, Pad and MP3;

If you care about the environment and want to use a durable product made from recyclable material.....

PBOX P5 is such a portable and durable solar home lighting system. Intelligent charging and battery autonomy management can self monitor and adjust the lithium battery and make sure its high output. Solar panel of PBOX P5 can be easily mounted on the roof or wall. There are 4 USB ports for 5V USB-charged devices like USB bulbs, smart phone, Pad and MP3 etc.

### Application

Indoor lighting, Camping, emergency backup, Mobile charge

RESIDENTIAL



CAMPITES



REMOTE LOCATIONS





## Features and Benefits

- Monocrystalline silicon solar panel with high efficient rate of 18%.
- Advanced Lithium cell with 1000 recharge cycles.
- Over current, over voltage, over charge, over discharge, over temperature and shortcut protection
- 4 USB ports can charge the major types of USB devices on the market, e.g smart phone, PAD, MP3 and digital camera.
- Two years warranty.

### 1 Solar Panel

High efficient monocrystalline silicon solar panel.

### 2 Output Cable of Solar Panel

10m cable of solar panel connecting to P5.

### 3 Mounting Stand

Easy mount on a roof or wall. There three angles are designed to capture the maximum energy from the sun of the installation location.

### 4 P5

Maximum output of host can reach 40W, lithium battery cells and control panel are inside.

### 5 Interfaces

Interfaces including 4 USB charging ports, 1 power indicator, 1 ON/OFF switch and 1 solar charging input.


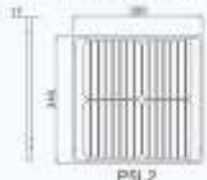
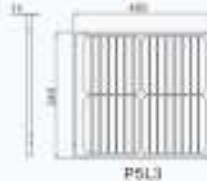
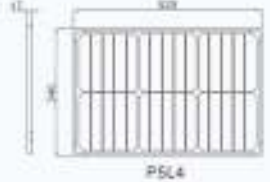
## Schematic of interfaces of P5:




Name of interface	Type	Definition and limit
USB Output	USB socket	Working voltage: 5V2A; Max current: ≤2000mA
Solar Charging Input	φ5.5DC socket	Operating voltage: 13VDC~20VDC; Max power of solar panel: ≤29Wp

Indicators	Color of LED	ON/OFF switch	LED Status	Type functioning
Charging indicator	Green LED	OFF	LED Flowing	Charging
		ON	■ ■ ■ ■	Charging
		ON	□ □ □ □	Battery has been damaged
Battery power indicator	Green LED	ON	■ ■ ■ ■	Battery capacity ≥ 80%
			□ ■ ■ ■	Battery capacity between 50%~80%
			□ □ ■ ■	Battery capacity between 10%~50%
			3 LEDs flash	Battery capacity < 10%, stop output


### P5 Parameter

Model No.		P5L2	P5L3	P5L4	Physical Dimensions (mm)
Host Parameter	USB Output	5V 2A	5V 2A	5V 2A	 <p>P5 host dimension</p>
	Lithium Battery Capacity (Wh)	70	95	120	
	Gross Weight (kg)	0.9	1.05	1.2	
Dimension (mm)	268×170×33.6	268×170×33.6	268×170×33.6		
LED Parameter	Power of LED Bulb	3W (Standard 2pcs)	3W (Standard 3pcs)	3W (Standard 4pcs)	 <p>P5L2</p>
	Typical Luminous Flux (lm)	270	270	270	
	Color Temperature (K)	4000	4000	4000	
USB Lamp Cable Length	5m, 10m	5m, 5m, 10m	5m, 5m, 10m, 10m		
PV Parameter	Power of Solar Panel (W)	15	20	25	 <p>P5L3</p>
	Output Voltage (V)	15	15	15	
	Net Weight (kg)	1.5	1.8	2.2	
Dimension (mm)	360×340×17	400×340×17	525×340×17		
Packaging Parameter	Single Packaging	Carton Size (mm)	400x140x385	440x140x385	 <p>P5L4</p>
		Gross Weight (kg)	4.5	5.8	
	Multiple Packaging	Carton Size (mm)	600x420x410	600x460x410	
Gross Weight (kg)		24	30.5	34	
Temperature Requirement	Packing (pcs)	4	4	4	
	Charging Temperature	0℃~55℃	0℃~55℃	0℃~55℃	
	Discharging Temperature	-20℃~60℃	-20℃~60℃	-20℃~60℃	
Storage Temperature	0℃~45℃	0℃~45℃	0℃~45℃		

### Optional Parts I - LED Bulb

Model No.	B3W5V	B5W5V	B7W5V	Pictures
Power (W)	3	5	7	 <p>B3W5V B5W5V B7W5V</p>
Input Voltage (V)	5	5	5	
Rendering Index	80	80	80	
Color Temperature (K)	4000	4000	4000	
Typical Luminous Flux (lm)	270	450	630	
Dimension (mm)	∅50×85	∅60×110	∅65×115	

### Optional Parts II - USB Fan

Model No.	F1W5V	F3W5V	Pictures
Power (W)	1.4	3	 <p>F1W5V F3W5V</p>
Input Voltage (V)	5	5	
Gear Speed	2 Ranges	2 Ranges	
Cable Length (m)	1.1	1.2	
Fan Dimension (mm)	120×86×153	215 x 132 x 225	