

P5S

Solar Powered Charging Station

PBOX®



FEATURES AND BENEFITS:

- Monocrystalline silicon solar panel with high efficient rate of 18%.
- One DC port for Laptop and 3 USB ports for 5V USB-charged devices.
- High volume battery capacity to 143Wh (4~7 hours for laptop or 10~16 times for smart phone).
- Advanced Lithium cell with 1000 recharge cycles.
- Over current, over voltage, over charge, over discharge, over temperature and shortcut protection.
- Various connectors cover the major type of laptop on the market.
- 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 P5S.

3 Mounting Stand

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

4 P5S

Maximum output of host can reach 130W, lithium battery cells and control panel are inside.

5 Interfaces

Consist of 1 DC port for laptop, 3 USB ports, 1 power indicator, 1 output ON/OFF switch and 1 solar charging input interface.

Schematic of interfaces of P5S:



Name of interface	Type	Definition and limit
Laptop Output	φ7.5DC socket	Working voltage: 16VDC; Max current: ≤5000mA
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: ≤50Wp

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

P5S Parameter

Model No.		P5S-25	P5S-35	P5S-50	Physical Dimensions (mm)	
Host Parameter	Laptop Output	16V 5A	16V 5A	16V 5A		
	USB Output	5V 2A	5V 2A	5V 2A		
	Lithium Battery Capacity (Wh)	120	143	143		
	Gross Weight (kg)	1.2	1.4	1.4		
	Dimension (mm)	268x170x33.6	268x170x33.6	268x170x33.6		
PV Parameter	Power of Solar Panel (W)	25	35	50		
	Output Voltage (V)	15	15	15		
	Net Weight (kg)	2.2	2.6	4.5		
Packing Parameter	Single Packaging	Carton Size (mm)	570x380x80	550x480x80	670x550x80	
		Gross Weight (kg)	4.7	5	7	
	Multiple Packaging	Carton Size (mm)	590x370x400	570x370x500	690x370x570	
		Gross Weight (kg)	21	22	30	
		Packing (pcs)	4	4	4	
	Environment Requirements	Charging Temperature	0℃~55℃	0℃~55℃	0℃~55℃	
Discharging Temperature		-20℃~60℃	-20℃~60℃	-20℃~60℃		
Storage Temperature		0℃~45℃	0℃~45℃	0℃~45℃		

Adapter

Model	Output Voltage	DC Plug Spec	Applicable Models of Laptop
M2	16V	5.5 x 2.5	IBM, LENOVO, DELL, HP
M4	18.5V	4.8 x 1.7	COMPAQ, HP, NEC, ASUS
M6	19V	5.0 x 3.0	SAMSUNG
M9	19.5V	7.4 x 5.0	DELL(without IC), OPTION
M11	20V	7.9 x 5.5	IBM, LENOVO, OPTION
M14	22V	3.5 x 1.35(Red)	DELL
M16	20V	4.8 x 1.7	COMPAQ, HP, NEC, ASUS
M23	19.5V	4.5 x 3.0	HP, SONY, PAVILION
M26	19V	4.0 x 1.35	HP
M28	20V	11 x 4.5(Square)	LENOVO
AP-2 for Apple's laptop (optional)	20V	change magnetic 5 pin to 5.5 x 2.1 female connector	APPLE II

Pictures



ATTENTION: Make sure the adapter's type and voltage are matched with your laptop before use.