



P7 Series Solar Home System

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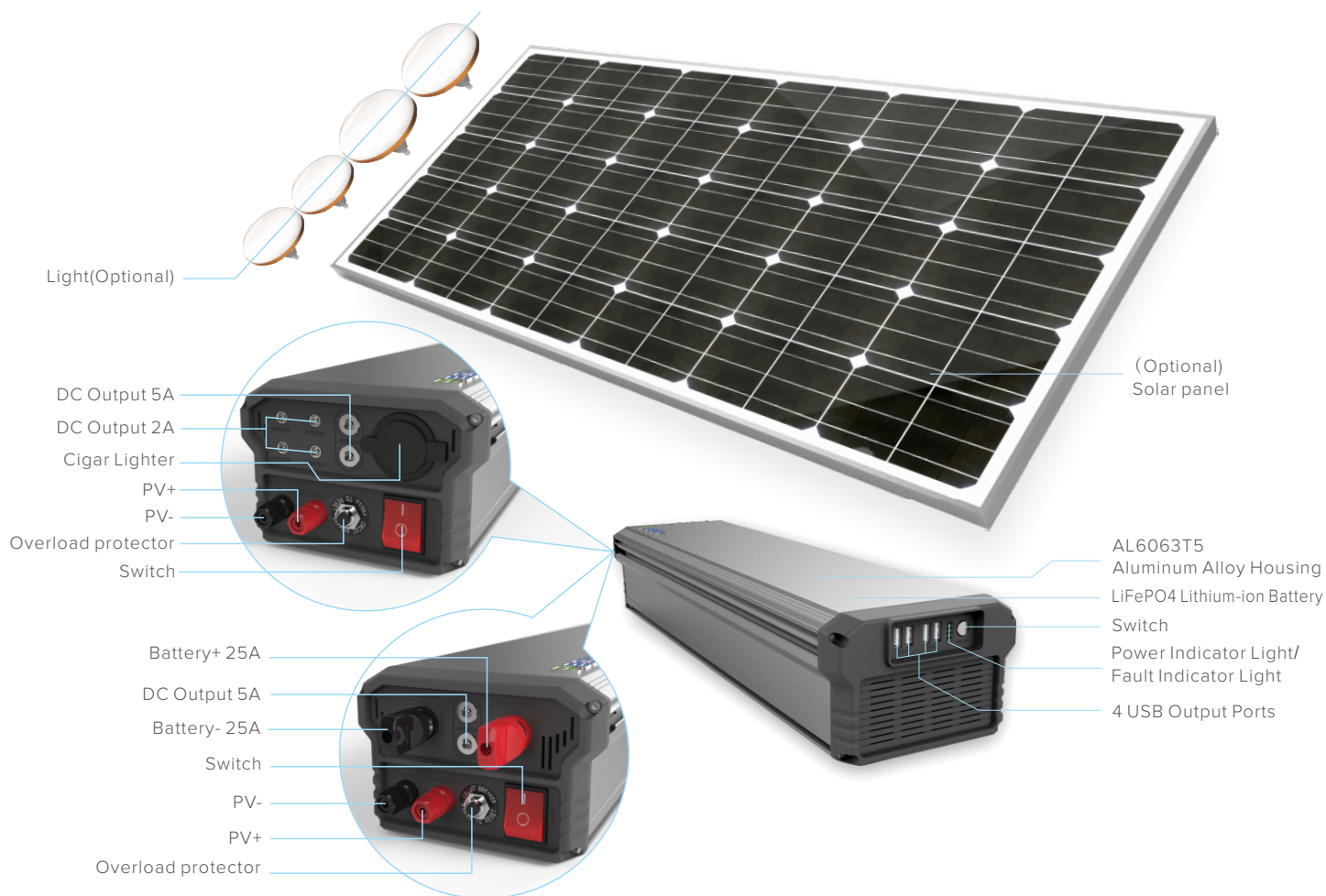
P7 Series Solar Home System

P7 Solar Home System is an independent photovoltaic system, composed of the built-in lithium battery, controller, and solar panel, with standard USB and DC ports. It meets the home lighting and basic living energy demand in remote rural areas.

P7 is powerful and reliable, equipped with 110-360W solar panels and 384-1536wh battery capacity. Users can charge LED lights, fans, mobile phones, iPads, MP3 players, computers, TVs, refrigerators and other household appliances through the USB/DC/inverter interface.

This eco-friendly power supply system is another flagship product from PBOX to achieve the vision of making solar applications available to everyone in the world.





Features & Benefits

High Strength Aluminum Frame Structure

- › Corrosion resistance
- › Strong and heat resistance



Flexible Interface Design

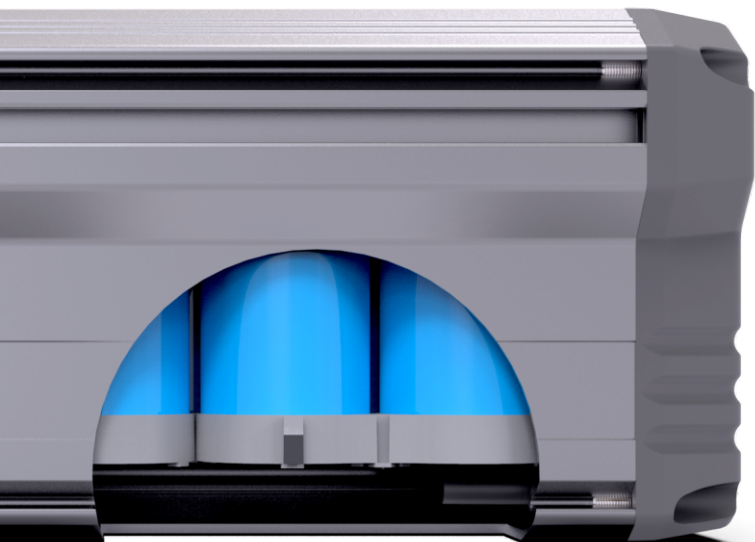
- Different configurations designed to meet customized solution needs



multiple DC interface and cigarette lighter
suitable for 110-360W 18V solar panel



high power output interface
suitable for 110-360W 18V solar panel



Powerful Lithium LiFePO4 Battery

- Battery capacity from 384Wh-1536Wh
- Over 2000 charge and discharge cycles
- More than 8 years life span
- Green and environmental-friendly
- Advanced circuit design, battery charge & discharge efficiency reaches $96\pm 2\%$

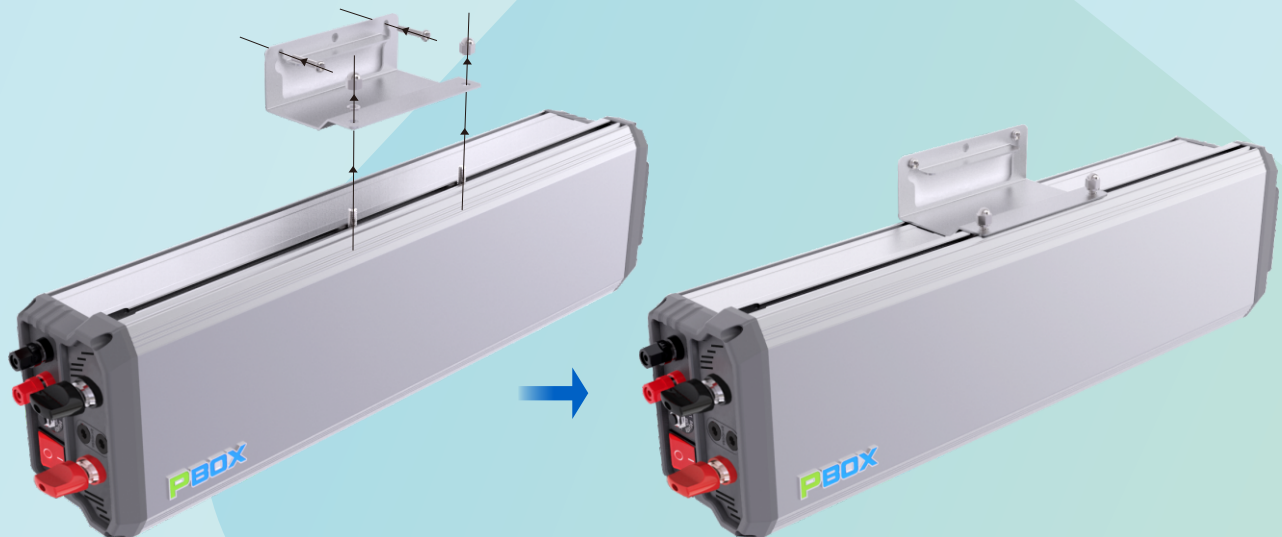
Safe & Reliable

- Safe system voltage, lower than 36V.
- Over-voltage, short circuit and reverse connection protection.

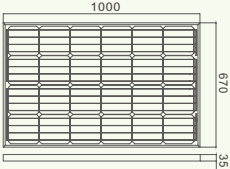
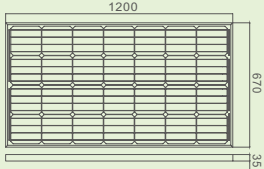
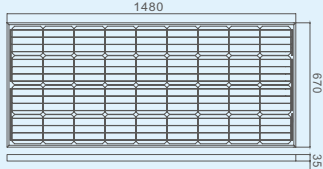


Easy Installation

- The solar panel can be quickly installed on the roof or ground by our special mounting brackets
- The device host can be placed on a desktop or mounted on the wall.



P7						
Model	P7B400	P7B600	P7B800	P7B1000	P7B1200	P7B1500
Battery Capacity (Wh)	384	615	768	1075	1229	1536
USB Output	5V2.1A (4pcs 7.2Amax)	5V2.1A (4pcs 7.2Amax)	5V2.1A (4pcs 7.2Amax)	5V2.1A (4pcs 7.2Amax)	5V2.1A (4pcs 7.2Amax)	5V2.1A (4pcs 7.2Amax)
Cigar Lighter	10~15V 10A	10~15V 10A	/	/	/	/
DC Output (5521)	10~15V 5A(2pcs) &2A(4pcs)	10~15V 5A(2pcs) &2A(4pcs)	10~15V 5A(2pcs)	10~15V 5A(2pcs)	10~15V 5A(2pcs)	10~15V 5A(2pcs)
High current Output Interface	/	/	10~15V 25A	10~15V 25A	10~15V 25A	10~15V 25A
Max Total Output	12V15A	12V15A	12V30A	12V30A	12V30A	12V30A
Rated Charging Input	17~22V 10A	17~22V 10A	17~22V 20A	17~22V 20A	17~22V 20A	17~22V 20A
Net weight (kg)	4	6	7.5	9	11	15
Product Dimension (mm)	434×149×100	504×149×100	597×149×100	737×149×100	802×149×100	942×149×100
Gross Weight (kg)	6	8	10	11	13	17
Packing Dimension (mm)	470×200×160	540×200×160	635×200×160	775×200×160	840×200×160	980×200×160

Optional Solar Panel			
Model	PV110-18	PV130-18	PV180-18
Power (W)	110	130	180
Voltage (V)	18	18	18
Dimension (mm)	1000x670x35	1200x670x35	1480x670x35
Packing	1080x115x750	1280x115x750	1560x115x750
Gross Weight (kg)	12	13	17
Product Dimension Chart			

Maximum power can be obtained by parallel connection of two solar panels such as: 220W, 260W, 360W

Optional USB Rechargeable Flashlight		
LED chips Model	domestic T6, 5W power	
Battery	one 18650 battery	
Luminous flux (lm)	350	
Light range(m)	100-150	
Material	Aluminum	
Lighting gear	Glare-low light-flash-long press SOS	
Switch	Middle switch button(Switch is green) When low battery switch light is red	
Input	5V/1A	
Waterproof	IPX4	
Optical zoom	Telescopic zoom	
Color	Black	
Dimensions (mm)	124 x 28	
Weight (g)	81	



Optional Rechargeable Power Strip

Model	AC4A-4U	AC4E-4U
Power Plugs and Sockets Type	US Standard	European Standard
Rated Current (A)	10	10
Rated Voltage (V)	100~240	100~240
Effective Load (KW)	2.5	2.5
Jack socket No.(pcs)	4	4
USB Port	4pcs 5VDC 2.4A (max)	4pcs 5VDC 2.4A (max)
Cable Length (m)	1.8	1.8
Conductor Material	Pure Copper Wire	Pure Copper Wire
Certification	CE ROHS FCC	CE ROHS FCC



AC4A-4U

AC4E-4U

Optional Inverter

	Model	BEL150XTU	BEL300ST
Output	Power (Typ.)	150W	300W
	AC voltage	110V/220V	110V/220V
	Frequency	60HZ/50HZ±0.5HZ	60HZ/50HZ±0.5HZ
	Waveform	Rated voltage, Correction wave (THD<3%)	Rated voltage, Correction wave (THD<3%)
Input	Voltage range(Typ.)	10V-15V	10V-15V
	DC current (Typ.)	14.5A	30A
	No-load loss	≤0.5A	≤0.3A
	Efficiency(Typ.)	≥85%	≥85%
Battery input protection	Battery fuse	20A*1	40A*1
	Battery low voltage protection	9.5V±0.5V	9.5V±0.5V
	Battery high voltage protection	15.5V±0.5V	15.5V±0.5V
Output protection	Over-temperature	75°C±5°C	75°C±5°C
	overload(Typ.)	≥ 160W	≥ 300W
Condition	Working temperature	0-40°C@100%load	0-40°C@100%load
	Working humidity	20-90%RH, No refrigeration	20-90%RH, No refrigeration
	Storage temperature & humidity	-30°C-+70°C,10-95%RH	-30°C-+70°C,10-95%RH



BEL150XTU



BEL300ST

Optional 16 inch BL DC stand fan

Model	LD-722
Motor:	Brushless DC motor 12V
Motor power (W)	10W±1w
Safety voltage (V)	9V-15V
Blade	3 pcs ox leaf blade
Oscillation	Yes
Air speed set	3
Color	white
Rpm	1130 rpm ±50 rpm



LD-722

Optional Parts I - LED Bulb

Model	B250	B500
Typical Luminous Flux (lm)	250	500
dimming brightness	100%, 50%	100%, 50%
Power (W)	2	4
Input Voltage (V)	12	12
Color Temperature (K)	5000	5000
color rendering index(Ra)	80	80
switch	wall switch	wall switch
wiring	4m switch cable + 4m extension line	
Dimension (mm)	Φ93*84	Φ118*88
Packing dimension (mm)	95*95*95	125*125*100



B250

B500