

Power Conversion

Solar Box-5 /10



Enduring Performance

- 6000 cycles LFP battery + High - efficiency MPPT.
- 10 ports charging hub for phones / tools / laptops.



Professional Lighting Ecosystem

- up to 100,000 hours LEDs (40% less energy, 30% brighter)
- 110 lx task lighting + glare-free ambient zones.



Configuration 1:

- Solar Box - 5 × 1 / Solar LED - 1 × 3 / Solar PV - 10 × 1
- PV fully charged in 3 hours
- 1 LED bulb lights up for 25 hours
- 2 LED bulbs all lights up for 12.5 hours
- 3 LED bulbs all lights up for 8 hours
- Fully charges up to 3 typical smartphones



Configuration 2:

- Solar Box - 10 × 1 / Solar LED - 1 × 3 / Solar PV - 10 × 1
- PV fully charged in 6 hours
- 1 LED bulb lights up for 50 hours
- 2 LED bulbs all lights up for 25 hours
- 3 LED bulbs all lights up for 16 hours
- Fully charges up to 6 typical smartphones

Battery Model	Solar Box-5	Solar Box-10
Nominal Capacity	4000 mAh	8000 mAh
Size (W × D × H)	120 × 120 × 35 mm	
Battery Type	LiFePO4	
Nominal Voltage	6.4 V	
Humidity	0–95% RH (non-condensing)	
Battery Protection	Over-Current / Over-Voltage / Short Circuit / Under-Voltage / Over-Temperature	
Charge Operating Temperature	0 to 45 °C	
Discharge Operating Temperature	-10 to 55 °C	
IP Level	IP54	
Installation Method	Wall-mount / portable	
Transport	UN38.3 (tested) ; UN3480 as applicable	
PV Panel Model	Solar PV-10	
Pmax	10 W	
Vmp	18 V	
Imp	0.6 A	
Voc	25 V	
Isc	0.5 A	
Test Condition	@1000W / m ² / AM1.5 / 25°C	
LED Light Model	Solar LED-1	
Power	1 W	
Voltage	6.4 V	
Color Temperature	3000 K	
Lumen	110 lm	

Remark:

- ✓ DIY note: Ensure PV module voltage stays within 7.5 – 28 V.
- ✓ PV cable length: 5 m.
- ✓ Each lamp has an individual switch.
- ✓ PV panel line length 5m.
- ✓ Light bulb line is 5m long and each bulb has a separate switch.

CFE ESS Co., Ltd.

CFE has offices & warehouses in the following regions where you can get in touch with us:

Europe: Rotterdam (Netherlands) Africa: Johannesburg (South Africa)

Asia: Xi'an, Shenzhen, Tianjin, Hefei, Hong Kong (China) , and Yangon (Myanmar)

Tel: (+86) 029 38367888 Web: www.cfess.com E-mail: cfenergy@cfess.cn