Solar Home System

PS-K009T1
Shenzhen Power-Solution Ind Co., Ltd

Results based on test procedures detailed in
IEC 62257-9-5 v.4

✓ **Meets the Lighting Global Pico-PV Quality Standards**

Mobile charging

4 **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

A 2-year warranty for the main unit and kit, and a 1-year warranty for optional appliances.

PERFORMANCE DETAILS

	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m²/day)	
			Used alone[b]	Used in combination[c]
included in kit	LED Lantern	1 integrated light point on High mode totaling 160 lumens and 1.5 W power	7.1 hours	3.9 hours
	Torch	30 lumen torch (LiFePO4 battery: 400 mAh, 3.3 V)	53 hours	6.1 hours
	Radio	Rated power consumption of .4 W (Li-ion battery: 1500 mAh, 3.7 V)	40 hours	4.6 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	4.7 full charge(s)	1.5 full charge(s)

Available daily electrical energy[c] (Wh/day)	30

Performance measure	Brightness setting: High
Lighting full battery run time[d] for main unit (hours)	7.1
Lighting full battery run time of the Torch powered by Torch battery (hours)	5.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1320

[a] Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

[b] Without any other loads used during the run time

[c] Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

[d] Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy[e] (lm/W)	CRI[f]	CCT[g]	Distribution type	Lumen maintenance[h]
LED Lantern	3	2	High Mode	160	100	78	7800	Wide	98%
Torch	1	1	On	30	100	81	6800	Wide	100%

[e] Lumen efficacy is the power consumption at a light point during the light output test.

[f] Color Rendering Index. An index of 100 is equivalent to vieiwing objects in daylight; above 80 is considered good.

[g] Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

[h] Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES		
Remote	⭐	**Torch acts as a wireless remote control to turn lamps On and Off**

PORTS			
1	USB 2.0 type A		USB output port on each LED Lantern. Mobile phones and radios can be charged. Adapters are included.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection.
Level of water protection	LED Lantern	Has protection from frequent rain; met with IPX4 and an appropriate warning label
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from occasional rain; met with appropriate warning label
	Radio	Has protection from occasional rain; met with appropriate warning label

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	11 watts (one 8 W and 3 W module in parallel)

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry	Lithium iron phosphate
Battery package type	1 x 26650
Battery capacity	3.4 Ah
Battery nominal voltage	3.2 V
Battery status indication	Four LEDs indicate different battery capacity levels on the LED Lanterns; Three LED indicators show the working status of the Torch.

PRODUCT DETAILS	
Manufacturer name	Shenzhen Power-Solution Ind Co., Ltd
Product name	Solar Home System
Product model / ID number	PS-K009T1
Contact information	susan@power-solution.net.cn
Website	https://www.power-solution.net.cn/
Co-brand of	Roofstar Flex 3e , Mango Energy Technologies Company Limited
Dimensions (entire product in package)	36.5 x 19 x 14 cm
Mass	2720 g

SSS INFORMATION	
Specs sheet expiration date	May 31, 2022
Quality standards framework version	2020
Revision	2021.07