Solar Home

PS-K015
Shenzhen Power Solutions 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 1-year warranty covers manufacturing defects.

PERFORMANCE DETAILS

	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
			Used alone[b]	Used in combination[c]
included in kit	Main lighting unit	4 lights on high totalling 680 lumens and 5.6 W	4.3 hours	1 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	2.9 full charge(s)	0.27 full charge(s)
	Fan	USB table fan with 2.5 W power	2 hours	1.3 hours

Available daily electrical energy[c] (Wh/day)	20

Performance measure	Brightness setting: High
Lighting full battery run time[d] for main unit (hours)	6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	2900

[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]
2 W lamp	4	2	High	170	120	74	7400	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 viewing 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

PORTS			
2	**USB 2.0 type A**		One 5V USB port is available on the main unit and one 5V USB Port is available on the PV module for charging a cellphone.
4	**Barrel jack**		Four 7.4V barrel jacks are available to power light points.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, physical ingress protection.
Level of water protection	Main Lighting Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	7.8 watts

BATTERY DETAILS	
Battery replaceability	Easily replaceable with common tools.
Battery chemistry	Lithium-ion
Battery package type	4 x 18650
Battery capacity	5.3 Ah
Battery nominal voltage	7.4 V
Battery status indication	One indicator for charging status and one for operating status.

PRODUCT DETAILS	
Manufacturer name	Shenzhen Power Solutions Ltd.
Product name	Solar Home
Product model / ID number	PS-K015
Contact information	susan@power-solution.net.cn
Website	https://www.power-solution.net.cn/
Co-brand of	Solar 4 Bulbs Home Lighting and Charging System, Solar Run Energy Co., Ltd.
Dimensions (entire product in package)	19 x 36 x 7.5 cm
Mass	2145 g

SSS INFORMATION	
Specs sheet expiration date	June 30, 2022
Quality standards framework version	2020
Revision	2020.03