

Solar Home

PS-K015
Shenzhen Power-Solution Ind Co.,Ltd
Results based on test procedures detailed in
IEC 62257-9-5 v.4

Verify online:
<https://data.verasol.org/products/sps-s4b>
Valid until: December 31, 2022



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

		Run time after a typical day of solar charging (assuming 5kWh/m ² /day)			
		Appliance ^a	Description	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		
1	USB 2.0 type A	 One 5V USB port is available on the main unit.
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-Solution Ind Co.,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		December 31, 2022
Quality standards framework version		2020
Revision		2020.03