Solar Power Supply System

Poly Solar Technologies (Beijing) Co., Ltd

Results based on test procedures detailed in
Lighting Global Solar Home System Test Method Ed. 2.0

Verify online:
www.lightingglobal.org/products/ps-100

Valid Until: October 31, 2020

Available Daily Electrical Energy (Wh/day)

220

Lumens

270

Meets Lighting Global Quality Standards

Mobile Charging

5 **Light Points**

1 **5-volt USB Ports**

8 **12-volt Ports**

Warranty Information

A two year warranty for the product's PV module, control unit, battery, and lamps.

Performance Details

				Run Time After a Typical Day of Solar Charging[a]		
Appliance[b]	**Description**	**Included with kit?**	**Power[b] (W)**	**Used Alone[c]**	**Used In Combination[d]**	**Run Time Units**
Main lighting	5 light points on totaling 270 lumens	included	3.3	13	7.6	hours
Television	16" diagonal	advertised	18	12	3.8	hours
Radio	portable (3 Wh battery)	advertised	--	300	5.7	hours
Mobile Phone	Smartphone (5.7 Wh battery)	advertised	--	26	1.9	number of full charges

Available daily electrical energy[d] (Wh/day): 220

Performance Measure	**Brightness Setting: On**
Lighting full battery run time[e] (hours)	35
Total light output in lumens[f]	270

[a] A typical day of solar charging assumes 5 kWh/m^2/day

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

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

[d] Based on an example use profile with all of the appliances listed above used in combination

[e] 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.

[f] 1 candle or kerosene wick lamp = approximately 10 lumens

Lighting Details

Lamp Name	Type	Number of Settings	Light Output (lm)	Lumen Efficacy (lm/W)	CRI[g]	CCT[h]	Distribution Type	Lumen Maintenance[i]
3 W Lamp	LED	1	270	81	86	Daylight (> 5000 K)	Wide	>102%

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

[h] Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, cool, or daylight.

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

Special Features	
Mobile charging and appliances	USB and 12 V ports available to charge devices and power appliances

Durability	
Overall durability and workmanship	Pass
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection not tested; meant for indoor use only.

Solar Details	
PV module type	Polycrystalline silicon
PV maximum power	94 watts

Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium-ion
Battery package type	72*18650
Battery capacity	47 Ah
Battery nominal voltage	11.1 V
Battery Status Indication	6 LEDs show the battery capacity (4 LEDs), working status (1 LED)and PV Module input (1 LED)

Product Details	
Manufacturer name	Poly Solar Technologies (Beijing) Co., Ltd
Product name	Solar Power Supply System
Product model / ID number	PL-100-H-D
Contact information	info@polysolar.cn
Website	www.polysolar.com.cn
Dimensions (entire product in package)	not applicable
Weight	13000 g

SSS Information	
Specs sheet expiration date	October 31, 2020
Quality Standards Framework Version	2018
Revision	2018.10