Solar Home System

PL-10-H(R)-C
Poly Solar Technologies (Beijing) Co. Ltd.

Results based on test procedures detailed in IEC TS 62257-9-5

Verify online:
https://data.verasol.org/products/sek/ps-PL10HRC
Valid until: May 31, 2023

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

Mobile charging

3 **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	3 light points on (On) totaling 450 lumens and 3.6 W power	8.8 hours	5.9 hours
		Radio	integrated battery with a power consumption of 0.5 W while in-use	67 hours	4.5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	5.9 full charge(s)	1.5 full charge(s)

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

Performance measure	Brightness setting: On
Lighting full battery run time[d] for main unit (hours)	18
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3960

[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 Bulb	3	1	On	150	120	83	6640	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**		Two USB ports intended for mobile phone charging.
4	**Barrel jack**		Four Barrel jack ports intended for powering the LED Bulbs from the main unit.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	10 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry	Lithium-ion
Specific Li-ion battery chemistry	lithium nickel manganese cobalt oxide
Battery package type	9 x 18650
Battery capacity	6.5 Ah
Battery nominal voltage	11.1 V
Battery status indication	Three yellow indicators for showing battery capacity, one red indicator for showing load status, one green indicator for showing solar charging status.

MARKS AND CERTIFICATIONS	
Factory certification	GB/T19001-2016/ISO9001:2015, GB/T24001-2016/ISO14001:2015, GB/T45001-2020/ISO45001:2018

PRODUCT DETAILS	
Manufacturer name	Poly Solar Technologies (Beijing) Co. Ltd.
Product name	Solar Home System
Product model / ID number	PL-10-H(R)-C
Contact information	info@polysolar.cn
Website	www.polysolar.com.cn
Dimensions (entire product in package)	36.5 x 28 x 22 cm
Mass	3180 g

SSS INFORMATION	
Specs sheet expiration date	May 31, 2023
Revision	2021.07