

Portable Solar Lantern

Jonchn Electrical Science & Technology Co.,Ltd
Results based on test procedures detailed in
IEC 62257-9-5 v.4

Verify online:
<https://data.verasol.org/products/sek/jonchn-psl>
Valid until: November 30, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

There is a 3-year warranty for the battery and bulb, and a 10-year warranty for the PV module

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Bulb 1	180 lumens bulb, (Li-ion battery: 5.3 Ah, 3.7 V)	9.8 hours	3.3 hours
	Bulb 2 (used to charge smart phone)	180 lumens bulb, (Li-ion battery: 5.3 Ah, 3.7 V)	9.8 hours	1.5 hours
	Bulb 3 (used to charge torch)	180 lumens bulb, (Li-ion battery: 5.3 Ah, 3.7 V)	9.8 hours	1.1 hours
	Torch	150 lumens torch, (Li-ion battery: 2.6 Ah, 3.7 V)	5.2 hours	1.1 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	2.0 full charge(s)	0.37 full charge(s)

Available daily electrical energy^e (Wh/day) 16

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	9.8
Lighting full battery run time of the torch powered by torch battery (hours)	3.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1550

^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 ^g (lm/W)	CR ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Bulb	3	3	High	180	87	88	7000	Wide	100%
Torch	1	2	High	150	58	71	9800	Wide	100%

^g 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

3

USB 2.0 type B micro



USB Type B, Mini, 5-pin, 2.0

DURABILITY

Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection.
Level of water protection	Bulbs	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure.
	Torch	Has protection from occasional rain; met IPX1

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	16 watts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium-ion
Battery package type	2 x 18650
Battery capacity	5.3 Ah in each of 3 main lights
Battery nominal voltage	3.7 V
Battery status indication	There is one indicator that shows the working status.

PRODUCT DETAILS

Manufacturer name	Jonchn Electrical Science & Technology Co.,Ltd
Product name	Portable Solar Lantern
Contact information	diana@jonchan.com
Website	WWW.JONCHN.CC
Tested as	Zhejiang Jonchn Import and Export Co., Ltd
Dimensions (entire product in package)	38 x 42 x 9.5 cm
Mass	3185 g

SSS INFORMATION

Specs sheet expiration date	November 30, 2022
Quality standards framework version	2020
Revision	2020.11