

Solar Lantern

P7
Qingdao Sunshine New Energy Co., Ltd

Verify online:
<https://data.verasol.org/products/sek/sc-p7>
Valid until: July 31, 2025

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



Mobile charging

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty (3-year warranty in Rwanda) covering manufacturing defects in the system.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	2 light points (Main unit integrated light on "Brightest" and Hanging light on "On") totaling 355 lumens and 2.7 W power	5.9 hours	3.7 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	2.6 full charge(s)	0.9 full charge(s)

Available daily electrical energy ^c (Wh/day)	14
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Performance measure	Brightness setting: One main unit light on "Brightest", one hanging bulb on "On"
Lighting full battery run time ^d for main unit (hours)	6.8
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2120



^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
Main light (main unit)	1	3	Brightest	220	120	85	8600	Wide	100%
Hanging bulb	1	1	On	130	150	88	8000	Wide	100%
Reading light (main unit)	1	1	On	74	110	87	9100	Wide	100%
Focus light (main unit)	1	1	On	100	77	76	9400	Narrow	99%

^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		Mobile phones can be charged. Adapters are included.
1	Barrel jack		3.2 V port available to power a light point.
DURABILITY			
Overall durability and workmanship			Pass
Durability tests passed			Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests
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			5.1 watts
MAIN UNIT BATTERY DETAILS			
Battery replaceability			Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry			Lithium iron phosphate
Battery package type			32700
Battery capacity			5.9 Ah
Battery nominal voltage			3.2 V
Battery status/ other indicator lights			Four indicators for battery level and charging.
PRODUCT DETAILS			
Manufacturer name			Qingdao Sunshine New Energy Co., Ltd
Product name			Solar Lantern
Product model / ID number			P7
Contact information			steven@solarchange.com.cn
Website			www.solarchange.com.cn
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.
Mass			n/a
SSS INFORMATION			
Specs sheet expiration date			July 31, 2025
Revision			2025.06