Solar Lantern

P7

Brand name: SolarChange

Results based on test procedures detailed in IEC TS 62257-9-5:2024

Verify online:

https://data.verasol.org/products/sek/sc-p7

alid until: June 30, 2028



Meets the Requirements in IEC TS 62257-9-8:2025 for Size A kits



Mobile charging



Light point(s)



Plug-and-play



Run time after a typical day of solar charging

WARRANTY INFORMATION

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

PERFORMANCE DETAILS

				(assuming 5kWh/m²/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", Hanging bulb on "On") totaling 350 lumens and 2.7 W power	5.1 hours	1.4 hours	
no	not included	Smart phone	Smart phone (15 Wh battery)	0.48 full charge(s)	0.35 full charge(s)	

Available daily electrical energy [Wh/day]	11
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Performance measure	Brightness setting: Integrated light (main unit) on "Brightest" Hanging bulb on "On"			
Lighting full battery run timed for main unit [hours]	6.7			
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1790			

^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 name	Light output [lm]	Power Consumption [W]	Lumen efficacy ^e [lm/W]	CRI ^f	CCT ^g	Lumen maintenance ^h
Main light (main unit)	1	3	Brightest	220	2	130	81	6900	98
Hanging bulb	1	1	On	130	0.86	140	83	6700	99
Focus light (main unit)	1	1	On	100	1.5	64	68	7900	100
Reading light (main unit)	1	1	On	74	0.64	100	80	10000	97

	the original light output that re	mains after 2,000 hours of	f run time.				
ORTS							
1	USB 2.0 type A	-	Mobile phones can be charged. Adapters are included.				
1	1 Barrel jack —		12 V ports available to power light points.				
1	USB type C	-	Mobile phones can be charged. Adapters are not included.				
URABILITY	<u> </u>						
Overall d	durability and workmanship		Pass				
Durability	y tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durabilit tests				
Level of water protection		Main Unit	Has protection from occasional rain; met with appropriate warning label				
LOVOI OI	water protestion	PV module	Has protection from permanent outdoor exposure				
OLAR DET	AILS						
PV Modu	ule Type		Polycrystalline silicon				
	mum Power		5 W				
PV Rate			5 W				
PV Oper	n-Circuit Voltage (V _{OC})		6.06 V				
AIN UNIT E	BATTERY DETAILS						
Battery Replaceability			Easily replaceable with common tools; however, the warranty is void if product is opened.				
Specific	Li-ion Battery Chemistry		lithium iron phosphate				
Battery C	Capacity (tested)		6.2 Ah				
Battery C	Capacity (rated)		6 Ah				
Battery N	Nominal Voltage		3.5 V				
Battery s	status / other indicator lights		One indicator for battery level.				
RODUCT D	DETAILS						
Compan	y Name (full)		Qingdao Sunshine New Energy Co., Ltd				
Compan	y Name ("brand")		SolarChange				
Product Name			Solar Lantern				
Product Model or ID Number			P7				
Company Contact Information			steven@solarchange.com.cn				
Company Website			www.solarchange.com.cn				
Mass			1325 g				
SS INFORM	MATION						
Expiratio	n Date		June 30, 2028				
Revision			2025.07				

^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.

⁹ Correlated Color Temperature in 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.