

Solar Home Light Kit

VEK-8L
Shanghai EASY Renewable Energy Co., Ltd

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

Verify online:

<https://data.verasol.org/products/sek/sez-vek8l>

Valid until: December 31, 2022



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 490 lumens and 5.6 W power	5 hours	3.5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	4.7 full charge(s)	0.9 full charge(s)

Available daily electrical energy^c (Wh/day)

23

Performance measure

Brightness setting: On

Lighting full battery run time^d for main unit (hours)

9.7

Total lighting service (lumen-hours/solar-day)

2500

(includes the both main lighting unit and any lights with internal batteries included with the product)

^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
180 lm bulb	2	1	On	170	80	72	6800	Wide	99%
120 lm bulb	1	1	On	150	104	73	7700	Wide	--

^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		
2	USB 2.0 type A	 Mobile phones can be charged. Adapters are not included.
3	Barrel jack	 3.7 V DC ports for LED bulbs
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		9.3 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium-ion
Battery package type		1865
Battery capacity		18 Ah
Battery nominal voltage		3.7 V
Battery status indication		Three green LEDs indicate battery capacity and charging status.
PRODUCT DETAILS		
Manufacturer name		Shanghai EASY Renewable Energy Co., Ltd
Product name		Solar Home Light Kit
Product model / ID number		VEK-8L
Contact information		wei.cheng@ezrenewables.com
Website		www.ezrenewables.com
Dimensions (entire product in package)		30 x 19 x 10 cm
Mass		2390 g
SSS INFORMATION		
Specs sheet expiration date		December 31, 2022
Quality standards framework version		2021
Revision		2021.05