


# Solar Home Light Kit


VEK-8L  
Chaohu Venus Solar Technology Co., Ltd

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


Verify online:  
<https://data.verasol.org/products/sek/cvs-vek8l>  
Valid until: August 31, 2025




Meets the Requirements in IEC TS 62257-9-8:2020 for Size A kits



Mobile charging



Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

## PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m²/day)	
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	2 light points on "On" totaling 520 lumens and 5.0 W power	7.5 hours	5.2 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	6.3 full charge(s)	1.3
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	47 hours	3.9 hours
no	not included	Tablet	Tablet Computer (15Wh battery)	1.5 hours	Not tested

Available daily electrical energy <sup>c</sup> (Wh/day)	29
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Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> for main unit (hours)	8.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3920

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.  
<sup>b</sup> Without any other loads used during the run time  
<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.  
<sup>d</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
2 W LED lamp	2	1	On	260	110	83	6800	Wide	100%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.  
  
<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.  
<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)  
<sup>h</sup> 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 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			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			18650
Battery capacity			18 Ah
Battery nominal voltage			3.7 V
Battery status/ other indicator lights			Three green LEDs indicate battery capacity and charging status.
PRODUCT DETAILS			
Manufacturer name			Chaohu Venus Solar Technology 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)			Multiple packages. Contact manufacturer for more information.
Mass			n/a
SSS INFORMATION			
Specs sheet expiration date			August 31, 2025
Revision			2025.07