

Solar Home Light Kit

VEK 8-L

Brand name: Venus Energy Limited

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

Verify online:

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

Valid until: August 31, 2028



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

PAYG

Mobile charging

Pay-As-You-Go option available

2

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/m ² /day)	
VeraSol Certified?	Included in kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	2 W Bulb	2 light points on "On" totalling 700 lumens and 5.4 W power	6.6 hours	2.1 hours
no	not included	Tablet	Tablet computer (30 Wh battery)	0.73 hours	0.52 hours

Available daily electrical energy [Wh/day]	32
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Performance measure	Brightness setting: on
Lighting full battery run timed for main unit [hours]	6.6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3170

^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
2 W LED lamp	2	1	On	350	2.7	130	82	7000	98

^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 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 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		Monocrystalline silicon
PV Maximum Power		11 W
PV Rated Power		10 W
PV Open-Circuit Voltage (V _{OC})		11.3 V
MAIN UNIT BATTERY DETAILS		
Battery Replaceability		Easily replaceable with common tools.
Battery Chemistry		Lithium-ion
Specific Li-ion Battery Chemistry		lithium nickel manganese cobalt oxide
Battery Package Type		18650
Battery Capacity (tested)		16 Ah
Battery Capacity (rated)		16 Ah
Battery Nominal Voltage		3.7 V
Battery status / other indicator lights		three indicators for battery level, PV charging, and protection alarm
PRODUCT DETAILS		
Company Name (full)		Venus Energy Limited
Company Name ("brand")		Venus Energy Limited
Product Name		Solar Home Light Kit
Product Model or ID Number		VEK 8-L
Company Contact Information		wei.cheng@exrenewables.com
Company Website		http://www.ezrenewables.com/
Mass		2380 g
SSS INFORMATION		
Expiration Date		August 31, 2028
Revision		2025.08