

# Solar Home System

VEK1206-LFP

Chaohu Venus Solar Technology Co., Ltd.

Verify online:

<https://data.verasol.org/products/sek/sez-vek1206>

Valid until: June 30, 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 for Size B Kits



Mobile charging

2

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	2 light points on "ON" totaling 640 lumens and 4.6 W power	17 hours	15 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	17 full charge(s)	3.7 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	84
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Performance measure	Brightness setting: Two 2 W lamps on "On".
Lighting full battery run time <sup>d</sup> for main unit (hours)	17
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	10900

<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 lamp	2	1	On	320	140	81	6600	Wide	101%

<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	 12 V ports available to power light points.
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		23 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		6.1 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		Three indicators for battery level and PV charging.
PRODUCT DETAILS		
Manufacturer name		Chaohu Venus Solar Technology Co., Ltd.
Product name		Solar Home System
Product model / ID number		VEK1206-LFP
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		June 30, 2025
Revision		2022.06