Solar Home System

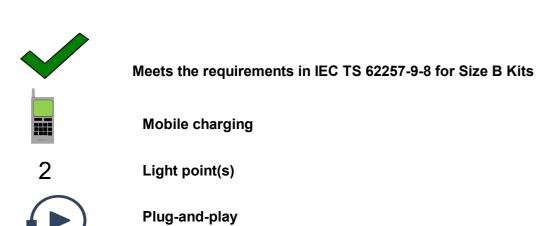
<u>VEK1210</u>

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/sez-vek1210<u>Valid until:</u> June 30, 2025







WARRANTY INFORMATION

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

PERFORMANCE DET		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	Main lighting unit	2 light points on "ON" totaling 640 lumens and 4.6 W power	24 hours	21 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	23 full charge(s)	5.2 full charge(s)

Available daily electrical energy^c (Wh/day) 117

Performance measure	Brightness setting: Two 2 W lamps on "On".
Lighting full battery run time ^d for main unit (hours)	24
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	15400

^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 (Im)	Lumen efficacy ^e (Im/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
2 W lamp	2	1	On	320	140	81	6600	Wide	101%

^e Lumen efficacy is the power consumption at a light point during the light output test.

^fColor 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						
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				
	Main Unit	Water ingress protection not tested, meant for indoor use only.				
Level of water protection	PV module	Has protection from permanent outdoor exposure				
SOLAR DETAILS						
PV module type		Polycrystalline silicon				
PV maximum power		32 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 cobalt oxide				
Battery package type		21700				
Battery capacity		9.5 Ah				
Battery nominal voltage		11.1 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		VEK1210				
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		2023.06				