

Venus Solar Home System

VE-SHS-1224
Shanghai EASY Renewables Tech Co., Ltd

Verify online:

<https://data.verasol.org/products/sek/sez-shs1224>

Valid until: July 31, 2023

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



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

Two year warranty on all kits and components from date of sale

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	4 light points on totaling 639 lumens and 9.2 W power	24 hours	4.5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	47 full charge(s)	1.1 full charge(s)
no	not included	Television	Greater than 16" diagonal (18 W power consumption while in-use)	14 hours	2.2 hours
no	not included	Radio	Portable radio (3.7 Wh battery, 3.7 V nominal voltage) with rated power consumption of 0.5 W	360 hours	3.4 hours
no	not included	Fan	Table fan (28 W power)	9 hours	5.6 hours

Available daily electrical energy ^c (Wh/day)	240
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Performance measure	Brightness setting: 4 x 2.3 W LED lamps 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 (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
2.3 W LED lamp	4	1	On	160	66	71	6400	Wide	90%

^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 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

SPECIAL FEATURES		
PAYG	★	Pay-As-You-Go enabled
PORTS		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are not included.
6	Barrel jack (2A)	 12 V ports available to charge devices and power lights and appliances, 6 of these ports are rated for a maximum of 2 A
1	Barrel Jack (5A)	 One high-power 12 V port is available to power appliances, rated with a maximum of 5 A
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
	LED lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		83 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium-ion
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		18650
Battery capacity		26 Ah
Battery nominal voltage		11.1 V
Battery status indication		Three green LEDs indicate battery state of charge and one indicates the charging status.
PRODUCT DETAILS		
Manufacturer name		Shanghai EASY Renewables Tech Co., Ltd
Product name		Venus Solar Home System
Product model / ID number		VE-SHS-1224
Contact information		wei.cheng@ezrenewables.com
Website		www.ezrenewables.com
Dimensions (entire product in package)		30 x 17.3 x 18 cm
Mass		3840 g
SSS INFORMATION		
Specs sheet expiration date		July 31, 2023
Revision		2021.07