Solar Home System

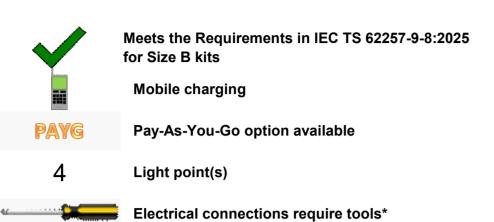
VE-SHS-1224-PAYG (100W) Brand name: VENUS

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

Verify online:

https://data.verasol.org/products/sek/vel-shs1224

Valid until: August 31, 2028





Run time after a typical day of solar charging

*Some terminals on this product are not plug-and-play. Lighting Global verification assesses the performance of the system, but cannot assess proper installation of the product.

WARRANTY INFORMATION

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

PERFORMANCE DETAILS

				(assuming 5kWh/m²/day)		
VeraSol Certified?	Included in kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c	
yes	included	Main lighting unit	4 light points on "on" totaling 1400 lumens and 9.6 W power	33 hours	7.3 hours	
no	not included	Smart phone	Smart phone (15 Wh battery)	15 full charge(s)	1.8 full charge(s)	
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.7 W while in use	310 hours	5.5 hours	
no	not included	Torch	Torch (0.5 W while in use)	430 hours		
yes	not included	Television	32" diagonal television (30 W power consumption while in use)	12 hours	3.7 hours	
yes	not included	Fan	16" diameter table fan (16 W power consumption while in use)	23 hours	9.2 hours	

Available daily electrical energy [Wh/day]	370
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Performance measure	Brightness setting: 4 lights on "on"		
Lighting full battery run time for main unit [hours]	33		
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	46200		

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^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	CCTg	Lumen maintenance ^h
2 W bulb	4	1	on	350	2.4	150	82	6780	99

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

^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.

^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							
2	USB 2.0 type A		Mobile phones, torches, and radios can be charged.				
4	Barrel jack		12 V ports available to power fans and light points.				
4	Barrel jack		12 V ports available to power appliances.				
DURABILIT	Υ						
Overall o	lurability and workmanship		Pass				
Durabilit	y 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	Permanent rooftop installation for PV modules				
		2 W bulb	Water ingress protection not tested, meant for indoor use only.				
SOLAR DE	TAILS						
PV Modu	ıle Type		Monocrystalline silicon				
PV Maxi	mum Power		110 W				
PV Rate			100 W				
PV Oper	n-Circuit Voltage (V _{OC})		22.4 V				
MAIN UNIT	BATTERY DETAILS						
Battery F	Replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.				
Battery (Chemistry		Lithium iron phosphate				
Battery F	Package Type		32700				
Battery (Capacity (tested)		24 Ah				
Battery (Capacity (rated)		24 Ah				
Battery N	Nominal Voltage		12.8 V				
Battery s	status / other indicator lights		On screen indicators for battery level				
PRODUCT	DETAILS						
Compan	y Name (full)		Venus Energy Limited				
Compan	y Name ("brand")		VENUS				
Product	Name		Solar Home System				
Product Model or ID Number			VE-SHS-1224-PAYG (100W)				
Company Contact Information			wei.cheng@ezrenewables.com				
Company Website			www.ezrenewables.com				
Mass			n/a				
SSS INFOR	RMATION						
Expiratio			August 31, 2028				
Revision			2025.11				