

Solar Home System

VEK1208

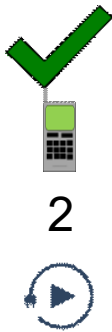
Brand name: VENUS

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

Verify online:

<https://data.verasol.org/products/sek/vel-shs1208>

Valid until: August 31, 2028



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

Mobile charging

Light point(s)

Plug-and-play



WARRANTY INFORMATION

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

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	Main lighting unit	2 light points on "on" totaling 700 lumens and 4.8 W power	23 hours	20 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	23 full charge(s)	5 full charge(s)

Available daily electrical energy [Wh/day]	120
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Performance measure	Brightness setting: Two lights on "on"
Lighting full battery run time for main unit [hours]	23
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	16100

^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.

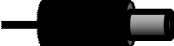
LIGHTING DETAILS									
Lamp name	Number of lamps	Number of settings	Setting name	Light output [lm]	Power Consumption [W]	Lumen efficacy ^e [lm/W]	CRI ^f	CCT ^g	Lumen maintenance ^h
2 W bulb	2	1	on	350	2.4	150	82	6780	99

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

^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.
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	
	2 W bulb	Water ingress protection not tested, meant for indoor use only.	
SOLAR DETAILS			
PV Module Type			Monocrystalline silicon
PV Maximum Power			32 W
PV Rated Power			30 W
PV Open-Circuit Voltage (V _{OC})			22.49 V
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 (tested)			8.2 Ah
Battery Capacity (rated)			8 Ah
Battery Nominal Voltage			12.8 V
Battery status / other indicator lights			Three LEDs indicate battery charge
PRODUCT DETAILS			
Company Name (full)			Venus Energy Limited
Company Name ("brand")			VENUS
Product Name			Solar Home System
Product Model or ID Number			VEK1208
Company Contact Information			wei.cheng@ezrenewables.com
Company Website			www.ezrenewables.com
Mass			n/a
SSS INFORMATION			
Expiration Date			August 31, 2028
Revision			2025.09