

Solar Home System

HS2-144-LB124

Brand name: Omnivoltaic

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

Verify online:

<https://data.verasol.org/products/sek/omni-hs2144>

Valid until: August 31, 2028



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

PAYG

Mobile charging

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for the torch.

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	3 light points on "on" totaling 1140 lumens and 6.6 W power	23 hours	3.3 hours
yes	included	Torch	38 lm torch (LiFePO4 battery: 0.64 Ah, 3.2 V)	390 hours	3.3 hours
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.35 W while in use	280 hours	2.5 hours
no	not included	Smart phone	Smart phone (15 Wh battery)	7.3 full charge(s)	0.82 full charge(s)
yes	not included	Television	40" diagonal television (14 W power consumption while in use)	14 hours	1.6 hours
no	not included	Fan	Standing fan (16" or smaller diameter, 10 W power)	18 hours	4.1 hours

Available daily electrical energy [Wh/day]	180
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Performance measure	Brightness setting: 4 bulbs on "on"
Lighting full battery run time for main unit [hours]	23
Lighting full battery run time of the Torch powered by Torch battery (hours)	6.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	41000

^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
1 W bulb	1	1	on	200	1.1	180	69	5300	not tested
2 W bulb	1	1	on	310	1.9	170	70	5300	not tested
4 W bulb	1	1	on	630	3.6	170	71	5200	97
Torch	1	1	front light	38	0.26	150	64	5300	96

^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 1,000 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 charge devices and power appliances and light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop 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	Permanent rooftop installation for PV modules
	Torch	Has protection from frequent rain; met IPX3
	1 W, 2 W, and 4 W bulbs	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV Module Type		Polycrystalline silicon
PV Maximum Power		49 W
PV Rated Power		50 W
PV Rated Open-Circuit Voltage (V _{OC})		21.6 V
MAIN UNIT BATTERY DETAILS		
Battery Replaceability		Not easily replaceable with common tools.
Battery Chemistry		Lithium iron phosphate
Battery Package Type		32700
Battery Capacity (tested)		12 Ah
Battery Capacity (rated)		12 Ah
Battery Nominal Voltage		12.8 V
Battery status / other indicator lights		On screen indicator for battery capacity
PRODUCT DETAILS		
Company Name (full)		OmniVoltaic Energy Solutions Company Limited / Omnivoltaic (Shenzhen) Co., Ltd.
Company Name ("brand")		Omnivoltaic
Product Name		Solar Home System
Product Model or ID Number		HS2-144-LB124
Company Contact Information		team_sales@omnivoltaic.com
Company Website		www.omnivoltaic.com
Mass		n/a
SSS INFORMATION		
Expiration Date		August 31, 2028
Revision		2025.11