

Solar Home System

HS2-307_LB124

Omnivoltaic Energy Solutions Co. Ltd

Verify online:

<https://data.verasol.org/products/sek/omni-ovcamphs2307>

Valid until: May 31, 2025

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



Meets the requirements in IEC TS 62257-9-8 for Size B Kits



Mobile charging

PAYG

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 other electrical loads.

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	One 1 W bulb (120 lumens**, 1 W power) One 2 W bulb (210 lumens**, 2 W power) One 4 W bulb (410 lumens**, 4 W power)	45 hours	6.1 hours
yes	included	Torch	46 lumen torch with Side light on "High" and 0.33 W power (LiFePO4 battery: 500 mAh, 3.3 V)	890 hours	6.1 hours
yes	not included	Television	40" TV (13 W power consumption while in-use)	24 hours	3 hours
no	not included	Fan	Table fan (28 W power while in use)	11 hours	7.6 hours
yes	not included	Radio	Portable radio (0.4 W power consumption while in use)	770 hours	4.6 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	35 full charge(s)	1.5 full charge(s)

** Values from testing do not include lampshade use.

Available daily electrical energy ^c (Wh/day)	310
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Performance measure	Brightness setting: One 1 W bulb on "On", One 2 W bulb on "On", One 4 W bulb on "On", one torch Side light on "High"
Lighting full battery run time ^d for main unit (hours)	45
Lighting full battery run time of the Torch (Side light on "High") powered by Torch battery (hours)	7.3
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	33800

^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
1 W bulb	1	1	On	120**	110	85	6900	Wide**	100%
2 W bulb	1	1	On	210**	110	85	5700	Wide**	98%
4 W bulb	1	1	On	410**	110	85	6000	Wide**	98%
Torch	1	3	Side light on "High"	46	140	84	6300	Wide	100%
			Front light on "On"	39	120	83	6300	Wide	100%




** Values from testing do not include lampshade use.

^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, radios, and torches can be charged. Adapters are included.	
4	Barrel jack  12 V ports available to power light points and appliances.	
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
	1W bulb	Water ingress protection not tested, meant for indoor use only.
	2 W bulb	Water ingress protection not tested, meant for indoor use only.
	4 W bulb	Water ingress protection not tested, meant for indoor use only.
	Torch	Has protection from frequent rain; met IPX5
	Keypad	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type	Monocrystalline silicon	
PV maximum power	94 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Battery package type	32700	
Battery capacity	25 Ah	
Battery nominal voltage	12.8 V	
Battery status/ other indicator lights	Main unit: one screen for remaining capacity, use-till-empty time, charging-to-full time, and remaining credits; one indicator is for charging Torch: when charging, one indicator is red; when pressing buttons, another indicator is green	
PRODUCT DETAILS		
Manufacturer name	Omnivoltaic Energy Solutions Co. Ltd	
Product name	Solar Home System	
Product model / ID number	HS2-307_LB124	
Contact information	marketing@omnivoltaic.com	
Website	https://www.omnivoltaic.com/	
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.	
Mass	n/a	
SSS INFORMATION		
Specs sheet expiration date	May 31, 2025	
Revision	2023.05	