

Solar Powered Home Electric System

HS2-230_LB124_KEYP

Omnivoltaic Energy Solutions Co., Ltd.

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/omni-ovcamphs2230>

Valid until: November 30, 2022



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

A two-year warranty covers the battery, solar panel and LED bulbs; other components are covered for one year.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main lighting unit	One 1 W Bulb with 120 lumens and 1 W power; one 2 W Bulb with 210 lumens and 2 W power; and one 4 W Bulb with 410 lumens and 4 W power	32 hours	5.5 hours
	Torch	39 lumens torch with front light on and .31 W power (LiFePO4 battery: 500 mAh, 3.3 V)	560 hours	5.5 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	30 full charge(s)	1.4 full charge(s)
	Television	32" Diagonal TV (11 W power consumption while in-use)	27 hours	2.8 hours
	Radio	Portable radio (0.4 W power consumption while in use)	420 hours	4.1 hours
	Fan	Table fan (28 W power while in use)	10 hours	6.9 hours

Available daily electrical energy^c (Wh/day) 270

Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	32
Lighting full battery run time of the torch powered by torch battery (hours)	6.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	23400

^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	39	120	83	6300	Wide	100%

^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

PORTS			
2	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are not included.
4	Barrel jack		Four 12 V ports available to charge devices and power appliances; three of these ports are used for light points only.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection. The torch met IP6X.
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	Bulb	Water ingress protection not tested, meant for indoor use only.
	Torch	Has protection from permanent outdoor exposure; met IPX5

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	75 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	4S3P
Battery capacity	18 Ah
Battery nominal voltage	12.8 V
Battery status indication	One digital display shows remaining battery capacity, estimated remaining use time, estimated time to fully charge, and remaining PAYG credits. One green LED indicates charging status.

MARKS AND CERTIFICATIONS	
Factory certification	ISO 9001:2015

PRODUCT DETAILS	
Manufacturer name	Omnivoltaic Energy Solutions Co., Ltd.
Product name	Solar Powered Home Electric System
Product model / ID number	HS2-230_LB124_KEYP
Contact information	sales@omnivoltaic.com
Website	www.omnivoltaic.com
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for information.
Mass	Multiple packages. Contact manufacturer for information.

SSS INFORMATION	
Specs sheet expiration date	November 30, 2022
Quality standards framework version	2020
Revision	2020.04

