

Solar Home System - Prime with 2 80 W panels

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

Verify online:
<https://data.verasol.org/products/sek/lumos-pb9>
Valid until: October 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

Product is offered with a rental agreement only. Warranty coverage varies by component, with all components covered for a minimum of 2 years.

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	2 light points on high totaling 1050 lumens and 14 W power	16 hours	7.1 hours
	sold separately	Mobile phone	Basic phone (3.7 Wh battery)	43 full charge(s)
Television		24" diagonal (18 W power consumption while in-use)	18 hours	4 hours
Fan		40 cm table fan (10 W power)	29 hours	10 hours
Radio		Portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.5 W.	320 hours	6.8 hours
Smart phone		Smart phone (5.7 Wh battery)	30 full charge(s)	2.3 full charge(s)
Tablet		Tablet Computer (15 Wh battery)	13 full charge(s)	--

Available daily electrical energy ^c (Wh/day)	290
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	16
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	16800

^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
LED bulb	2	3	High	520	82	82	6400	Omnidirectional	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	 <p>Mobile phones and radios can be charged. Adapters are included</p>
4	Barrel jack	 <p>12 V ports available to charge devices and power appliances and light points.</p>
1	Cigarette lighter	 <p>12 V port available to charge devices and power appliances. Advertised AC inverter that is compatible with this port is not certified by VeraSol.</p>
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		160 watts (2 x 80 W PV panels)
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		148 mm x 112 mm x 189 mm
Battery capacity		25 Ah
Battery nominal voltage		12.8 V
PRODUCT DETAILS		
Manufacturer name		Lumos
Product name		Solar Home System - Prime with 2 80 W panels
Product model / ID number		Prime
Contact information		Roe.e.lahav@lumos-global.com
Website		www.lumos-global.com
Dimensions (entire product in package)		35 x 31 x 31 cm
Mass		9570 g
SSS INFORMATION		
Specs sheet expiration date		October 31, 2022
Quality standards framework version		2020
Revision		2020.10