

Solar Power Station

SPS-0001

Lumos

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

Verify online:

<https://data.verasol.org/products/sek/lumos-sps>

Valid until: February 28, 2023



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

Repair or replacement of the PV module and main unit for no less than 2 years, depending on the user agreement

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
	Appliance ^a	Description	Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	2 light points on high totaling 1040 lumens and 14 W power	20 hours	8.4 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	34 full charge(s)	2.2 full charge(s)
	Television	16" diagonal (8 W power consumption while in-use)	35 hours	4.3 hours
	Fan	40 cm table fan (10 W power consumption while in-use)	28 hours	11 hours
	Radio	Portable radio with a power consumption of 0.5 W while in-use	390 hours	6.5 hours

Available daily electrical energy^c (Wh/day) 280

Performance measure	Brightness setting: High
Lighting full battery run time ^d 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)	20800

^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	39	82	6400	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.
4	Barrel jack	 12 V ports available to charge devices and power appliances and light points.
2	Cigarette lighter	 12 V cigarette lighter ports are available to power appliances.
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		83 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium-ion
Battery package type		44*18650
Battery capacity		25.7 Ah
Battery nominal voltage		14.5 V
Battery status indication		One LED display shows working and charging status; one LED indicator shows functional state (OK or error)
PRODUCT DETAILS		
Manufacturer name		Lumos
Product name		Solar Power Station
Product model / ID number		SPS-0001
Contact information		info@lumos-global.com
Website		www.lumos-global.com/
Dimensions (entire product in package)		38 x 31 x 40 cm
Mass		8640 g
SSS INFORMATION		
Specs sheet expiration date		February 28, 2023
Quality standards framework version		2020
Revision		2020.08