Solar Home System

SolarWorks!

Results based on test procedures detailed in Solar Home System Test Method, Ed. 1.0

Quality Standards

Mobile Charging

Verify online:

www.lightingglobal.org/products/sw-shs

Valid Until: August 2017



Available Daily Electrical Energy (Wh/day)

43

Lumens



5 Light Points

1 5-volt USB Ports



4 12-volt Ports



Warranty Information

A 3-year warranty covering manufacturing defects in the system including the battery.

Performance Details					
			Run Time After a Typical Day of Solar Charging*		
Appliance**	Description	Included/ Advertised	Used Alone***	Used In Combination****	Run Time Units
Main lighting	5 light points on totaling 650 lumens	included	6	2.0	hours
Television	16" TV	advertised	5	1.0	hours
Fan	table fan	advertised	16	2.5	hours
Radio	portable radio	advertised	9	1.5	hours
Mobile	3.7 Wh battery	advertised	15	1.4	number of full charges
Available daily electrical energy**** (Wh/day)		43			
Performance Measure		Brightness Setting: Five lights on			
Lighting full battery run time***** (hours)		7.2			
Total light output (lumens)		650			
Work surface illuminance of a single lamp****** (lux)		64			

^{*} A typical day of solar charging assumes 5 kWh/m²/day

^{**}Only included appliances were tested. Run times for other appliances come from manufacturer power ratings or standard estimates.

^{***} Without any other loads used during the run time

^{****} Based on an example use profile with all of the advertised appliances listed above used in combination

^{*****} 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.

^{******} The work surface illuminance is the brightness over two A4 sheets of paper with the brightest light at a distance of 0.75 m.

Lighting Details	lien		
Lamp type	LED		
Description of light points	Five 130-lumen light points		
Lumen efficacy	111 lm/W		
Colour characteristics	CRI 72		
	CCT "Cool" (5000-7000 K)		
Distribution type	Wide		
Lumen maintenance	104% of the original output remains after 2,000 hours of ru		
	time		
Special Features			
Mobile charging and appliances	USB and 12 V ports available to charge devices and powe		
Durability			
Overall durability and workmanship	Pass		
Durability tests passed	Switch and connector cycling, strain relief test, physical		
	ingress protection		
Solar Details			
PV module type	Polycrystalline silicon		
PV maximum power	14 watts		
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Battery Details			
Battery replaceability	Easily replaceable with common tools		
Battery chemistry	Lithium iron phosphate		
Battery package type	4x 26650		
Battery capacity	3.2 Ah		
Battery nominal voltage	12.8 V		
Appropriate battery protection circuit	Pass		
Marks and Certifications			
Factory certification	ISO 9001		
Other certification	AC charger has CE mark		
Product Details			
Manufacturer name	SolarWorks!		
Product name	Solar Home System		
Contact information	info@solar-works.nl		
Website	www.solar-works.nl		
SSS Information			
Specs sheet expiration date	August 2017		
Quality Standards Framework Version	2015		
Revision	2015.09		