

Itara Solar Home System

Itara-SHS12

Earth Technologies

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

Verify online:

<https://data.verasol.org/products/sek/et-itarashs12>

Valid until August 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



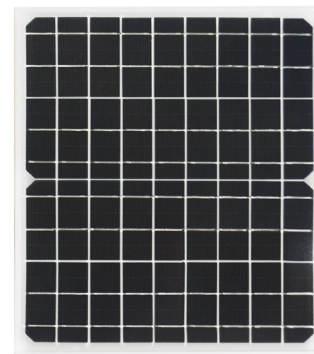
Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

2-year warranty covering manufacturing defects for all system components.

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	4 light points, totalling 840 lumens and 8.4 W	4.6 hours	4 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	7.8 full charge(s)	1 full charge(s)

Available daily electrical energy^f (Wh/day)

38

Performance measure

Brightness setting: On

Lighting full battery run time^d for main unit (hours)

8.5

Total lighting service (lumen-hours/solar-day)

3900

(includes the both main lighting unit and any lights with internal batteries included with the product)

^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
2 W bulb	4	1	On	210	97	74	6000	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

SPECIAL FEATURES

Portable	★	Main unit has a handle for carrying
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Individual switch	★	The bulb has an individual switch
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PORTS

1	USB 2.0 type A		Mobile phones and tablets can be charged. Adapters are not included.
6	Barrel jack		12 V ports available to power light points

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
	2 W bulb	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS

PV module type	Monocrystalline silicon
PV maximum power	14 watts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Sealed lead-acid
Battery capacity	6.1 Ah
Battery nominal voltage	12 V
Battery status indication	One LED indicates working status and one indicates charging status.

PRODUCT DETAILS

Manufacturer name	Earth Technologies
Product name	Itara Solar Home System
Product model / ID number	Itara-SHS12
Contact information	lfathalla@earthtechnologies.com
Website	www.earthtechnologies.com
Dimensions (entire product in package)	28 x 15.5 x 35.5 cm
Mass	4754 g

SSS INFORMATION

Specs sheet expiration date	August 31, 2022
Quality standards framework version	2020
Revision	2020.08