

Solar Generator

LF-SHS-03

Qingdao Leff International Trading Co., Ltd

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

Verify online:

<https://data.verasol.org/products/sek/ql-sge1>

Valid until: April 30, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 1-year warranty covering manufacturing defects.

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 on, totaling 940 lumens and 12 W power	2.7 hours	0.5 hours
	Integrated radio	Integrated battery with a power consumption of 0.7 W while in use	46 hours	0.4 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	5.6 full charge(s)	0.1 full charge(s)
	Television	TV with 18 W power consumption while in use	1.7 hours	0.3 hours
	Fan	Fan (28 W power)	1.1 hours	0.7 hours

Available daily electrical energy^c (Wh/day) 30

Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	6.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2540

^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	4	1	On	230	82	70	6100	Wide	99%

^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 included.
4	Barrel jack		Four 12 V ports are used for light points only.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	10 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	18650
Battery capacity	6 Ah
Battery nominal voltage	11.1 V
Battery status indication	Four indicators show battery capacity, state of charge, and charging status. One LED display shows radio in use.

PRODUCT DETAILS	
Manufacturer name	Qingdao Leff International Trading Co., Ltd
Product name	Solar Generator
Product model / ID number	LF-SHS-03
Contact information	david@lefftrade.org
Website	www.opteco.cn
Co-brand of	Solar Generator, Solar Idea Co., Ltd.
Dimensions (entire product in package)	37 x 19 x 27 cm
Mass	3700 g

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