

Solar Lighting Kit

SLF-02

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-slf02>

Valid until: July 31, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A two-year warranty covering manufacturing defects

PERFORMANCE DETAILS

	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	2 light points on with 320 lm and 3.4 W power	8.7 hours	6.3 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	4.2 full charge(s)	1.6 full charge(s)

Available daily electrical energy^e (Wh/day) 32

Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	8.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2800

^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 ^a (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED Bulb	2	1	On	170	98	76	4700	Wide	99%

^a 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		
1	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
2	Barrel jack	 Two 7.4 V ports are used for powering lights
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		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		4x18650
Battery capacity		4 Ah
Battery nominal voltage		7.4 V
Battery status indication		Two indicators: one for charging, one for power
PRODUCT DETAILS		
Manufacturer name		Qingdao Leff International Trading Co., Ltd
Product name		Solar Lighting Kit
Product model / ID number		SLF-02
Contact information		david@opteco.cn/david@lefftrade.org
Website		www.opteco.cn/www.lefftrade.org
Dimensions (entire product in package)		26 x 36 x 8.5 cm
Mass		1800 g
SSS INFORMATION		
Specs sheet expiration date		July 31, 2022
Quality standards framework version		2020
Revision		2020.09