

# Solar Light

SC-5

Brand name: SolarChange

Verify online:

<https://data.verasol.org/products/sek/sc-sc5>

Results based on test procedures detailed in IEC TS 62257-9-5:2024

Valid until: May 31, 2028



**Meets the Requirements in IEC TS 62257-9-8:2025 for Size A kits**

1

**Light point(s)**



**Plug-and-play**



## WARRANTY INFORMATION

A 2-year warranty covering defects in the system. A 3-year warranty in Rwanda.

## PERFORMANCE DETAILS

Setting	Description	Run time after a typical day of solar charging (assuming 5kWh/m2/day)	Total light output (lumens)
high	1 LED, 0.35 W power	3.9	41

Available daily electrical energy (Wh/day)	1.4
--	-----

Performance measure	Brightness setting: high
Lighting full battery run timed for main unit (hours)	4.4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	160

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>b</sup> Without any other loads used during the run time

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> 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 name	Light output (lm)	Power Consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Lumen maintenance <sup>h</sup>
Integrated Lamp	1	3	high	41	0.3	120	75	11000	96

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

\* Lumen efficacy is the power consumption at a light point during the light output test.

\*\* Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

\*\*\* Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

\*\*\*\*Percent of the original light output that remains after 2,000 hours of run time

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit with Integrated PV Module	Has protection from frequent rain; met IPX3
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		0.38 watts
PV rated power		0.35 watts
PV open-circuit voltage ( $V_{oc}$ )		5.1 volts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		AA (HR6/14500)
Battery capacity		0.48 Ah
Rated Battery capacity		0.5 Ah
Battery nominal voltage		3.2 V
Battery status / other indicator lights		One indicator for charging
PRODUCT DETAILS		
Company name		Qingdao Sunshine New Energy Co., Ltd
Brand Name		SolarChange
Product name		Solar Light
Product model / ID number		SC-5
Contact information		steven@solarchange.com.cn
Website		www.solarchange.com.cn
Mass		110 g
SSS INFORMATION		
Specs sheet expiration date		May 31, 2028
Revision		2025.06