

# Solar Generator

CECHS-026

CECEP Solar Energy Technology (Zhenjiang) CO., LTD.

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

Verify online:

[www.lightingglobal.org/products/cec-sge1](http://www.lightingglobal.org/products/cec-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 covers the system from the time of purchase.

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
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<sup>c</sup> (Wh/day)

30

## Performance measure

Brightness setting: On

Lighting full battery run time<sup>d</sup> for main unit (hours)

6.1

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

2540

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

<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	Light output (lm)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED Bulb	4	1	On	230	82	70	6100	Wide	99%

<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

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		CECEP Solar Energy Technology (Zhenjiang) CO., LTD.
Product name		Solar Generator
Product model / ID number		CECHS-026
Contact information		zhaogang01@cecsec.cn
Website		<a href="http://www.cecepsolar.com/">http://www.cecepsolar.com/</a>
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