

Solar Lighting System Solar Generator

CECHS-021p

CECEP Solar Energy Technology (Zhenjiang) Co., Ltd.

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

Verify online:

<https://data.verasol.org/products/sek/cecep-gen021p>

Valid until: August 31, 2023



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	4 light points on (On) totaling 910 lumens and 11 W power	6 hours	1.2 hours
no	not included	Television	18 W power consumption while in-use	3.8 hours	0.6 hours
		Fan	Table fan (28 W power)	2.4 hours	1.5 hours
		Mobile phone	Basic phone (3.7 Wh battery)	13 full charge(s)	--
		Mobile phone	Smart phone (5.7 Wh battery)	8.3 full charge(s)	0.3 hours

Available daily electrical energy ^c (Wh/day)	67
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Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	8.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	5470

^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)	CR ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED Lamp	4	1	On	230	81	70	6190	Wide	100%

^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		
4	USB 2.0 type A	 Mobile phones can be charged, adapters are included.
4	Barrel jack	 12 V ports available to power light points.
2	TV /Fan Port	12 V ports available to power TV and Fan
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure
	LED Lamp	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		21 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium iron phosphate
Battery package type		26700
Battery capacity		8.2 Ah
Battery nominal voltage		12.8 V
Battery status indication		Four red LEDs indicate the battery status.
PRODUCT DETAILS		
Manufacturer name		CECEP Solar Energy Technology (Zhenjiang) Co., Ltd.
Product name		Solar Lighting System Solar Generator
Product model / ID number		CECHS-021p
Contact information		zhaogang01@cecsec.cn
Website		http://www.cecepsolar.com/
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information
Mass		Multiple packages. Contact manufacturer for more information
SSS INFORMATION		
Specs sheet expiration date		August 31, 2023
Quality standards framework version		2021
Revision		2021.07