

# EC-SE04-S Solar Home Kit

EC-SE04-S

Guangdong Jinyuan Solar Energy Co., Ltd.

Verify online:

<https://data.verasol.org/products/sek/jinyuan-ecse04s>

Valid until: January 31, 2024

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8 for Size B Kits



Mobile charging

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects for the entire system.

## PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main unit lighting	1 integrated light point on (High) and 3 hanging light points on (On) totaling 870 lumens and 6 W power	5.5 hours	4.1 hours
yes	included	Integrated radio	Integrated battery with a power consumption of 0.72 W while in-use	41 hours	3.1 hours
yes	not included	Smart phone	Smart phone (5.7 Wh battery)	5.9 full charge(s)	1 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	29
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Performance measure	Brightness setting: Integrated light on "High" and three hanging lights on "On"
Lighting full battery run time <sup>d</sup> for main unit (hours)	6.4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4790

<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>
Integrated light	1	2	High	290	160	71	6000	Wide	100%
Hanging light	3	1	On	190	140	71	4100	Wide	100%

<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 can be charged. Adapters are included.
3	Barrel jack	 6.4 V ports available to power light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop 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
	Hanging lights	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		10 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		32700
Battery capacity		5.8 Ah
Battery nominal voltage		6.4 V
Battery status/ other indicator lights		There are four indicators for battery level.
PRODUCT DETAILS		
Manufacturer name		Guangdong Jinyuan Solar Energy Co., Ltd.
Product name		EC-SE04-S Solar Home Kit
Product model / ID number		EC-SE04-S
Contact information		Bobby@jinyuanlighting.com
Website		www.ecomatters-solar.com
Dimensions (entire product in package)		36 x 20 x 12 cm
Mass		2300 g
SSS INFORMATION		
Specs sheet expiration date		January 31, 2024
Revision		2022.02