Ecomatters Solar Lantern

EC-RF64-S

Guangdong Jinyuan Solar Energy Co., Ltd

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

Verify online:

https://data.verasol.org/products/sek/jinyuan-ecosl

Valid until: February 28, 2023

Meets the Lighting Global Pico-PV Quality Standards

Mobile charging

2 **Light point(s)**

Plug-and-play

WARRANTY INFORMATION

The company warrants the product to be free from defects in material andworkmanship, under normal use and operation, for a period of 2 years afterthe date of sale/handover to consumer

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
	Appliance[a]	**Description**	**Used alone[b]**	**Used in combination[c]**
included in kit	Main lighting unit	1 integrated side lamp on (high) totaling 150 lumens and 1.2 W power	5.5 hours	2.2 hours
	Mobile phone	Smart phone (5.7 Wh battery)	0.83 full charge(s)	0.54 full charge(s)
	Main lighting unit	1 integrated front lamp on (on) totaling 86 lumens and 1.0 W power	6.6 hours	--

Available daily electrical energy[c] (Wh/day)	6

Performance measure	**Brightness setting: High**
Lighting full battery run time[d] for main unit (hours)	5.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	830

[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[e] (lm/W)**	**CRI[f]**	**CCT[g]**	**Distribution type**	**Lumen maintenance[h]**
Integrated Side Lamp	1	6	High	150	120	72	5500	Omnidirectional	100%
Integrated Front Lamp	1	1	On	86	84	73	9500	Narrow	99%

[e] 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 vieiwing 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

SPECIAL FEATURES		
Multi-mode		**The lantern can be used as flashlight, ambient light, SOS light, warning light and party light.**

PORTS		
1	**USB 2.0 type A**	Mobile phones can be charged. A 4-in-1 USB charger is included.

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 IPX1 and an appropriate warning label
	PV module	Has protection from permanent outdoor exposure.

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	2.3 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium-ion
Battery package type	18650
Battery capacity	2.5 Ah
Battery nominal voltage	3.7 V
Battery status indication	Two indicators for the PV charging and phone charging

MARKS AND CERTIFICATIONS	
Factory certification	ISO 9001:2015, ISO 14001:2015

PRODUCT DETAILS	
Manufacturer name	Guangdong Jinyuan Solar Energy Co., Ltd
Product name	Ecomatters Solar Lantern
Product model / ID number	EC-RF64-S
Contact information	Bobby@jinyuanlighting.com
Website	www.ecomatters-solar.com
Dimensions (entire product in package)	15.4 x 18.2 x 11 cm
Mass	600 g

SSS INFORMATION	
Specs sheet expiration date	February 28, 2023
Quality standards framework version	2021
Revision	2021.02