

Solar Lantern

SR12A

Brand name: Solar Run

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

Verify online:

<https://data.verasol.org/products/sek/ssr-sr12a-welite>

Valid until: December 31, 2026



Meets the Requirements in IEC TS 62257-9-8:2020 for Size A kits



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

| | | | | Run time after a typical day of solar charging (assuming 5kWh/m ² /day) | |
|--------------------|------------------|------------------------|--|---|----------------------------------|
| VeraSol Certified? | Included in Kit? | Appliance ^a | Description | Used alone ^b | Used in combination ^c |
| yes | included | Main lighting unit | 2 light points (integrated solar lantern and LED bulb) on (high) totaling 450 lumens and 4.2 W power | 3.5 hours | 2.0 hours |
| yes | included | Torch | 59 lumens torch, (LiFePO ₄ battery: 0.52 Ah, 3.2 V) | 25 hours | 2.0 hours |
| yes | not included | Mobile Phone | Basic phone (3.7 Wh battery) | 2.6 full charge(s) | -- |
| yes | not included | Smart phone | Smart phone (5.7 Wh battery) | 1.6 full charge(s) | 0.5 full charge(s) |
| yes | not included | Radio | Portable radio (Li-ion battery: 2 Ah, 3.7 V), with a power consumption of 0.33 W while in use | 44 hours | 1.5 hours |

Available daily electrical energy^c (Wh/day)

13

| Performance measure | Brightness setting: 3 lights on High |
|---|--------------------------------------|
| Lighting full battery run time ^d for main unit (hours) | 4.3 |
| Lighting full battery run time of the torch powered by torch battery (hours) | 4.3 |
| Total lighting service (lumen-hours / solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product) | 1850 |

^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 name | Light output (lm) | Power consumption (W) | Lumen efficacy ^g (lm/W) | CRI ^f | CCT ^g | Distribution type | Lumen maintenance ^h |
|--------------------------|-----------------|--------------------|--------------|-------------------|-----------------------|------------------------------------|------------------|------------------|-------------------|--------------------------------|
| Integrated Solar Lantern | 1 | 4 | High | 320 | 3.1 | 100 | 75 | 7900 | Wide | 100% |
| 1 W LED Bulb | 1 | 1 | On | 130 | 1.0 | 130 | 82 | 6600 | Wide | 100% |
| Torch | 1 | 1 | Torch Light | 59 | 0.41 | 100 | 73 | 7600 | Narrow | 100% |

^g 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 | | |
|--|--------------------------|---|
| 1 | USB 2.0 type A |  USB port can charge mobile phones and radios. Adapters are included. |
| 1 | Barrel jack |  A 3 V port available to power appliances and 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 | Integrated Solar Lantern | Has protection from permanent outdoor exposure; met IPX5 |
| | PV module | Has protection from permanent outdoor exposure |
| | LED Bulb | Has protection from frequent rain; met IPX1 |
| | Torch | Has protection from occasional rain; met with IPX1 and an appropriate warning label |
| SOLAR DETAILS | | |
| PV module type | | Monocrystalline silicon |
| PV maximum power | | 4.9 W |
| PV rated power | | 5.5 W |
| PV open-circuit voltage (V _{OC}) | | 7 V |
| 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 | | 32700 |
| Battery capacity | | 5.9 Ah |
| Rated Battery capacity | | 6 Ah |
| Battery nominal voltage | | 3.2 V |
| Battery status / other indicator lights | | One digital display shows the charging status and remaining battery run time on the main lamp enclosure. Three LED indicators show the charging status. |
| PRODUCT DETAILS | | |
| Company name | | Shenzhen Solar Run Energy Co., Ltd |
| Brand Name | | Solar Run |
| Product name | | Solar Lantern |
| Product model / ID number | | SR12A |
| Contact information | | info@solarunoffgrid.com |
| Website | | www.solarunoffgrid.com |
| Dimensions (entire product in package) | | 24.2 x 21.2 x 13 cm |
| Mass | | 1290 g |
| SSS INFORMATION | | |
| Specs sheet expiration date | | December 31, 2026 |
| Revision | | 2025.08 |