

# SolarLantern-S200

S200  
d.light

Verify online:

<https://data.verasol.org/products/sek/dl-S200>

Valid until: August 31, 2025

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



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



Mobile charging

1

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<br>(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 lighting unit     | 1 light point on high totaling 210 lumens and 1.5 W | 5.4 hours                                                                             | 2.1 hours                        |
| no                 | not included     | Mobile phone           | Smart phone (5.7 Wh battery)                        | 0.9 full charge(s)                                                                    | 0.5 full charge(s)               |

|                                                         |     |
|---------------------------------------------------------|-----|
| Available daily electrical energy <sup>c</sup> (Wh/day) | 6.6 |
|---------------------------------------------------------|-----|

| Performance measure                                                                                                                                       | Brightness setting: high |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Lighting full battery run time <sup>d</sup> for main unit (hours)                                                                                         | 5.6                      |
| Total lighting service (lumen-hours/solar-day)<br>(includes the both main lighting unit and any lights with internal batteries included with the product) | 1100                     |

<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               | 3                  | high    | 210               | 140                                | 84               | 5700             | 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                                  |                |                                                                                                                                        |
|----------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1                                      | USB 2.0 type A |  Mobile phones can be charged. Adapters are included. |
| 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                                                                                         |
| SOLAR DETAILS                          |                |                                                                                                                                        |
| PV module type                         |                | Polycrystalline silicon                                                                                                                |
| PV maximum power                       |                | 2 watts                                                                                                                                |
| MAIN UNIT BATTERY DETAILS              |                |                                                                                                                                        |
| Battery replaceability                 |                | Not easily replaceable with common tools.                                                                                              |
| Battery chemistry                      |                | Lithium-ion                                                                                                                            |
| Specific Li-ion battery chemistry      |                | lithium nickel manganese cobalt oxide                                                                                                  |
| Battery package type                   |                | 18650                                                                                                                                  |
| Battery capacity                       |                | 2.4 Ah                                                                                                                                 |
| Battery nominal voltage                |                | 3.7 V                                                                                                                                  |
| Battery status/ other indicator lights |                | One LED indicates battery state of charge                                                                                              |
| PRODUCT DETAILS                        |                |                                                                                                                                        |
| Manufacturer name                      |                | d.light                                                                                                                                |
| Product name                           |                | SolarLantern-S200                                                                                                                      |
| Product model / ID number              |                | S200                                                                                                                                   |
| Contact information                    |                | testing@dlight.com                                                                                                                     |
| Website                                |                | www.dlight.com                                                                                                                         |
| Dimensions (entire product in package) |                | 16 x 27 x 13 cm                                                                                                                        |
| Mass                                   |                | 670 g                                                                                                                                  |
| SSS INFORMATION                        |                |                                                                                                                                        |
| Specs sheet expiration date            |                | August 31, 2025                                                                                                                        |
| Revision                               |                | 2023.08                                                                                                                                |