

# Solar Lantern T200R

T200R  
d.light design Ltd

Verify online:  
<https://data.verasol.org/products/sek/dl-T200R>  
Valid until: March 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

| VeraSol Certified? | Included in Kit? | Appliance <sup>a</sup>         | Description  | Run time after a typical day of solar charging<br>(assuming 5kWh/m <sup>2</sup> /day) |                                  |
|--------------------|------------------|--------------------------------|--|---|----------------------------------|
|                    |                  |                                |  | Used alone <sup>b</sup>   | Used in combination <sup>c</sup> |
| yes                | included         | Main lighting unit - torch     | 1 light point on high totaling 210 lumens and 1.9 W power          | 4.4 hours   | 1.9 hours                        |
| yes                | included         | Main lighting unit - tubelight | 1 light point on high totaling 130 lumens and 1.9 W power          | 4.4 hours   | --                               |
| yes                | included         | Integrated radio               | Integrated battery with a power consumption of 0.21 W while in-use | 40 hours  | 1.5 hours                        |
| no                 | not included     | Mobile phone                   | Smart phone (5.7 Wh battery)                                       | 0.92 full charge(s)   | 0.49 full charge(s)              |

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

7.1

| Performance measure   | Brightness setting: high |
|---|--------------------------|
| Lighting full battery run time <sup>d</sup> for main unit integrated torch (hours)  | 4.6                      |
| Total lighting service (lumen-hours/solar-day)<br>(includes the both main lighting unit and any lights with internal batteries included with the product) | 920                      |

<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) | CR <sup>f</sup> | CCT <sup>g</sup> | Distribution type | Lumen maintenance <sup>h</sup> |
|--------------------|-----------------|--------------------|------------------|-------------------|------------------------------------|-----------------|------------------|-------------------|--------------------------------|
| Solar Lantern T200 | 1               | 4                  | high - torch     | 210               | 110                                | 74              | 5700             | Narrow            | 100%                           |
|                    |                 |                    | high - tubelight | 130               | 70                                 | 84              | 6600             | 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

**SPECIAL FEATURES**

multi-use



The solar lantern can be used as a torch or an ambient light.

**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 Lighting 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 | 2.5 watts               |

**MAIN UNIT BATTERY DETAILS**

|  |   |
|--|---|
| Battery replaceability                 | Easily replaceable with common tools; however, the warranty is void if product is opened. |
| Battery chemistry                      | Lithium-ion   |
| Specific Li-ion battery chemistry      | lithium cobalt oxide  |
| Battery package type                   | 18650   |
| Battery capacity                       | 2.4 Ah  |
| Battery nominal voltage                | 3.7 V   |
| Battery status/ other indicator lights | One indicator is for radio and one indicator is for PV charging                           |

**PRODUCT DETAILS**

|  |                     |
|--|---------------------|
| Manufacturer name                      | d.light design Ltd  |
| Product name                           | Solar Lantern T200R |
| Product model / ID number              | T200R               |
| Contact information                    | testing@dlight.com  |
| Website                                | www.dlight.com      |
| Dimensions (entire product in package) | 22 x 12 x 12 cm     |
| Mass                                   | 680 g               |

**SSS INFORMATION**

|                             |                |
|-----------------------------|----------------|
| Specs sheet expiration date | March 31, 2025 |
| Revision                    | 2023.03        |