

Solar Lantern

T100R

Brand name: d.light

Verify online:

<https://data.verasol.org/products/sek/dl-t100r>

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

Valid until: January 31, 2027



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



Mobile charging

PAYG

Pay-As-You-Go option available

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

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	Integrated lamp	1 light point on high totaling 240 lumens and 1.5 W power	5.1 hours	1.8 hours
yes	included	Integrated radio	Radio integrated into main unit with a power consumption of 0.28 W while in use	29 hours	1.4 hours
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	10 hours	--
no	not included	Torch	Portable torch with power consumption of 0.3 W while in use	17 hours	--
no	not included	Smart phone	Smart phone (5.7 Wh battery)	0.85 full charge(s)	0.5 full charge(s)

Available daily electrical energy^c (Wh/day)

6.4

Performance measure	Brightness setting: high
Lighting full battery run time ^d for main unit (hours)	6.8
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1220

^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)	Power consumption (W)	Lumen efficacy ^a (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Integrated lamp	1	2	high	240	1.5	150	80	6600	Wide	100%
			medium	110	0.72	150	79	6800	--	--

^a 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	 Mobile phone can be charged
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		Monocrystalline silicon
PV maximum power		2.9 watts
PV rated power		3 watts
PV open-circuit voltage (V _{oc})		6.2 volts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		26700
Battery capacity		3.9 Ah
Battery nominal voltage		3.2 V
Battery status / other indicator lights		One /led display screen
PRODUCT DETAILS		
Company name		d.light design Ltd.
Brand Name		d.light
Product name		Solar Lantern
Product model / ID number		T100R
Contact information		testing@dlight.com
Website		www.dlight.com
Dimensions (entire product in package)		n/a
SSS INFORMATION		
Specs sheet expiration date		January 31, 2027
Revision		2025.02