T300R Solar Lantern

T300R
d.light design Inc

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/dl-t300r
Valid until: January 31, 2024

✔ **Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits**

📱 **Mobile charging**

PAYG **Pay-As-You-Go option available**

2 **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[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main Unit Lighting (Integrated torch)	Integrated torch totaling 200 lumens and a power consumption of 1.9 W while in-use	4.2 hours	2.1 hours
yes	included	Integrated side lamp	Integrated lamp totaling 120 lumens and a power consumption of 1.9 W while in-use	4.2 hours	--
yes	included	Integrated radio	Integrated battery with a power consumption of 0.3W while in-use	32 hours	1.6 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	1 full charge(s)	0.52 full charge(s)

Available daily electrical energy[c] (Wh/day)	7.7

Performance measure	Brightness setting: high
Lighting full battery run time[d] for Integrated torch (hours)	4.2
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]
Main Unit (Integrated Torch)	1	3	High	200	110	72	5400	Narrow	100%
Integrated Tube Light	1	2	High	120	66	85	6700	Wide	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 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

SPECIAL FEATURES

multi-use	★	The solar lantern can be used as torch, ambient light or radio.

PORTS

1	USB 2.0 type A	

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	2.7 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	four indicators are for battery level and PV charging

PRODUCT DETAILS

Manufacturer name	d.light design Inc
Product name	T300R Solar Lantern
Product model / ID number	T300R
Contact information	testing@dlight.com
Website	www.dlight.com
Dimensions (entire product in package)	25 x 18 x 16 cm
Mass	1070 g

SSS INFORMATION

Specs sheet expiration date	January 31, 2024
Revision	2022.05