

# Solar Lantern S502

S502

d.light design

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

[www.lightingglobal.org/products/dl-S502](http://www.lightingglobal.org/products/dl-S502)

Valid until January, 31 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

1

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 30-month warranty covering manufacturing defects

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included in kit	Integrated Lamp	1 light point on Brightest totaling 244 lumens and 2.1 W power	4.1 hours	2.7 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	1.2 full charge(s)	0.7 full charge(s)

Available daily electrical energy<sup>f</sup> (Wh/day) 10

Performance measure	Brightness setting: Brightest
Lighting full battery run time <sup>d</sup> for main unit (hours)	4.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1000

<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 Lamp	1	4	Brightest	240	120	85	5700	Wide	99%
Integrated Lamp	1	4	Bright	140	140	85	5700	Wide	--

<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, Strain relief test, Physical ingress protection.	
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	5.4 watts

**MAIN UNIT BATTERY DETAILS**

Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	26650
Battery capacity	3.2 Ah
Battery nominal voltage	3.2 V
Battery status indication	3 indicators of charging status and battery state of charge

**MARKS AND CERTIFICATIONS**

Factory certification	ISO 9001:2015; ISO 14001:2015
-----------------------	-------------------------------

**PRODUCT DETAILS**

Manufacturer name	d.light design
Product name	Solar Lantern S502
Product model / ID number	S502
Contact information	testing@dlight.com
Website	www.dlight.com
Dimensions (entire product in package)	14 x 17 x 9.5 cm
Mass	436 g

**SSS INFORMATION**

Specs sheet expiration date	January, 31 2022
Quality standards framework version	2020
Revision	2020.06