

Solar Home System D100

D100

d.light design

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

Verify online:

www.lightingglobal.org/products/dl-D100

Valid until: July 31, 2021



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

The warranty period will be 2 years from the date of sale. The company will repair or provide replacement. In the event of repairs/replacement of any part/s of the product, the warranty will remain in force only for the unexpired period of the warranty.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main lighting unit	Three light points on high totaling 490 lumens and 4.1 W power	6 hours	3.2 hours
sold separately	Smartphone	Smart phone (5.7 Wh battery)	2.9 hours	0.81 hours
	Torch	Torch (6 Wh battery)	11 hours	1.6 hours
	Radio	Portable (3.7 Wh battery, 3.7 V nominal voltage)	37 hours	2.4 hours

Available daily electrical energy ^c (Wh/day)	23
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Performance measure	Brightness setting: high
Lighting full battery run time ^d for main unit (hours)	8.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	3900

^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
LED bulb	2	2	High	120	120	85	6200	Wide	100%
Tubelight	1	2	High	220	120	84	5800	Wide	100%

^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		
PAYG	★ Pay-As-You-Go enabled	
Individual Switch	★ The LED bulb and tubelight can be controlled via individual switches.	
PORTS		
1	USB 2.0 type A  Torches, mobile phones, and radio can be charged. Adapters are not included.	
3	Barrel jack  The three barrel jack ports are used for light points only.	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Strain relief test, physical ingress protection.	
Level of water protection	LED Bulb	has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure; met
	Tube light	Has protection from occasional rain ; met with appropriate warning label
	Power Pack	Has protection from occasional rain ; met with appropriate warning label
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	7.8 watts	
BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Battery package type	32700	
Battery capacity	10 Ah	
Battery nominal voltage	3.2 V	
Battery status indication	Three indicators show the intensity of the sunlight and battery state-of-charge. One is for solar charging, one is for locked situation and three digital tubes are for credit situation.	
PRODUCT DETAILS		
Manufacturer name	d.light design	
Product name	Solar Home System D100	
Product model / ID number	D100	
Contact information	testing@dlight.com	
Website	www.dlight.com	
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.	
Mass	n/a	
SSS INFORMATION		
Specs sheet expiration date	July 31, 2021	
Quality standards framework version	2018	
Revision	2019.07	