Solar Home System D100R D100R d.light design Ltd



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



Mobile charging



Pay-As-You-Go



Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system

Run time after a typical day of solar charging
(assuming 5kWh/m²/day)

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VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 light points on High totaling 460 lumens and 3.3 W power	10 hours	4.1 hours
no	not included	Radio	Portable Li-ion battery: 0.6 Ah with a power consumption of 0.4 W while in-use	55 hours	3.1 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	3.8 full charge(s)	1 full charge(s)
no	not included	Torch	Li-ion battery: 1.9 Ah, 3.7 V, and 1.3 W power consumption.	14 hours	4.1 hours

Available dail	/ electrical energy ^c (Wh/day)	28
Available dall	/ electrical energy (Wn/day)	20

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	10
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4900

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

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 (8m)	2	2	High	120	120	85	6200	Wide	100%
Tubelight (4m)	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.

^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.

^f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

⁹ 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 FEATU	IDEC						
PAYG	IKES	Pay-As-You-Go enabled					
PORTS							
1			Mobile phones, torches, and radios can be charged. Adapters are included.				
3	Barrel jack	-	24 V ports available for light points.				
DURABILITY							
Overall durability and workmanship			Pass				
Durability tests pa	ssed		Switch test, Strain relief test, Physical ingress protection, PV durability tests				
		Main Unit, LED bulbs, and Tubelight	Water ingress protection not tested, meant for indoor use only.				
Level of water pro	tection	PV module	Has protection from permanent outdoor exposure				
SOLAR DETAILS	3						
PV module type			Polycrystalline silicon				
PV maximum pow	/er		7.8 watts				
MAIN UNIT BATT	TERY DETAILS						
Battery replaceabi	ility		Not easily replaceable with common tools.				
Battery chemistry			Lithium iron phosphate				
Battery package ty	уре		32700				
Battery capacity			11 Ah				
Battery nominal vo	oltage		3.2 V				
Battery status/ oth	ner indicator lights		Three indicators for battery status				
PRODUCT DETA	AILS						
Manufacturer nam	ne		d.light design Ltd				
Product name			Solar Home System D100R				
Product model / ID) number		D100R				
Contact information	on		testing@dlight.com				
Website			www.dlight.com				
Dimensions (entire product in package)			41 x 21 x 8 cm				
Mass			2300 g				
SSS INFORMATIO	N						
Specs sheet expir			November 30, 2024				
Revision			2023.03				