

X850 Plus and X1000 Solar Home System

X850 Plus and X1000

Brand name: d.light

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-x850plusx1000>

Valid until: March 31, 2026



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



Mobile charging



Pay-As-You-Go option available

6

Light point(s)



Plug-and-play



WARRANTY INFORMATION

The product carries a 2-year warranty with the exception of the following for which the warranty is 1 year: solar radio, solar torch.

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 lighting unit	5 light points on High, totalling 1380 lm and 12 W.	11 hours	4.5 hours
yes	included	Torch	88 lumens torch (Li-ion battery: 1.8 Ah, 3.7 V)	64 hours	4.1 hours
yes	included	Radio	Portable (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.3 W while in-use.	260 hours	3.3 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	17 full charge(s)	1.1 full charge(s)
no	not included	Television	32" diagonal (18 W power consumption while in-use)	8 hours	2.2 hours
yes	not included	Fan	16" stand fan (12 V, 8.4 W power on high)	17 hours	5.6 hours

Available daily electrical energy ^c (Wh/day)	140
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Performance measure	Brightness setting: 4 lamps and 1 tubelight on high; torch on high
Lighting full battery run time ^d for main unit (hours)	10
Lighting full battery run time of the Torch powered by Torch battery (hours)	4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	14700

^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 ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Hanging lamp	4	3	High	230	1.8	110	86	5800	Wide	100%
Tube light	1	3	High	630	5.4	110	84	6600	Wide	101%
Torch	1	2	High	88	0.34	68	73	6900	Narrow	96%

^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

PORTS			
3	USB 2.0 type A		Mobile phones, torches, and radios can be charged. Adapters are included.
7	Barrel jack		Four 19 V ports available to power light points, and three 12 V ports available to power appliances and charge devices.
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	Water ingress protection not tested, meant for indoor use only.	
	PV module	Has protection from permanent outdoor exposure	
	Torch	Has protection from occasional rain; met IPX3	
	Radio	Has protection from occasional rain; met IPX3	
	Fan	Water ingress protection not tested, meant for indoor use only.	
	Tubelight	Water ingress protection not tested, meant for indoor use only.	
	Bulb	Water ingress protection not tested, meant for indoor use only.	
SOLAR DETAILS			
PV module type		Polycrystalline silicon	
PV maximum power		40 watts	
PV rated power		40 watts	
PV nominal voltage		18 volts	
MAIN UNIT 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		12.8 V	
Battery status/ other indicator lights		LEDs indicate battery state of charge.	
PRODUCT DETAILS			
Company name		D.light design Ltd	
Brand Name		d.light	
Product name		X850 Plus and X1000 Solar Home System	
Product model / ID number		X850 Plus and X1000	
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		March 31, 2026	
Revision		2024.07	