

X850 Plus and X1000 Solar Home System

X850 Plus and X1000
Brand name: d.light

Verify online:

<https://data.verasol.org/products/sek/dl-x850plusx1000>

Valid until: March 31, 2026

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



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



Mobile charging

PAYG

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

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	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
---	-----

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