X2800 Solar Home System

X2800
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-X2800

Valid until: March 31, 2026

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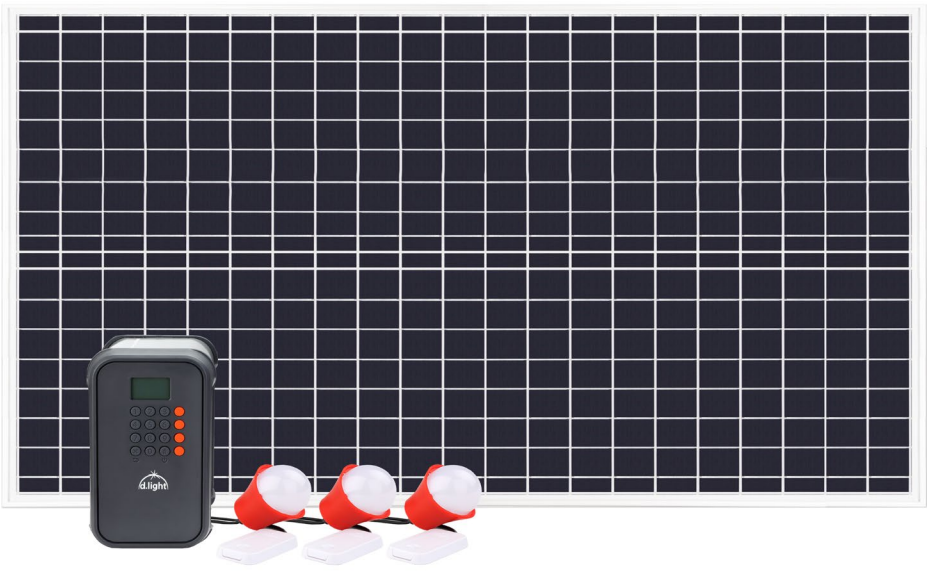
Mobile charging

PAYG **Pay-As-You-Go option available**

3 **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m²/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	3 light points on high totaling 690 lumens and 5.4 W power	42 hours	9.8 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	29 full charge(s)	2.5 full charge(s)
yes	not included	Torch	88 lm torch (Li-ion battery: 1.8 Ah, 3.7 V)	96 hours	9.8 hours
yes	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.3 W while in use	320 hours	7.4 hours
no	not included	Television	32" diagonal television (15 W power consumption while in use)	18 hours	4.9 hours
yes	not included	Fan	16" diameter table fan (8.4 W power consumption while in use)	32 hours	12 hours

Available daily electrical energy[c] (Wh/day)	260

Performance measure	Brightness setting: 3 lamps on "high"
Lighting full battery run time[d] for main unit (hours)	42
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	29000

[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	3	3	high	230	1.8	110	86	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

PORTS

3	USB 2.0 type A		Mobile phones, torches, and radios can be charged.
6	Barrel jack		12 V ports available to charge devices and power appliances and light points.

DURABILITY

Overall durability and workmanship		Pass
Durability tests passed		Switch 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
	Hanging Lamp	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS

PV module type	Monocrystalline silicon
PV maximum power	73 watts
PV rated power	80 watts
PV open-circuit voltage (V_{OC})	22.44 volts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Specific Li-ion battery chemistry	lithium iron phosphate
Battery package type	32700
Battery capacity	17 Ah
Rated battery capacity	18 Ah
Battery nominal voltage	12.8 V
Battery status / other indicator lights	On screen indicator for battery level

PRODUCT DETAILS

Company name	D.light design Ltd
Brand Name	d.light
Product name	X2800 Solar Home System
Product model / ID number	X2800
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	2025.02