Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging



Pay-As-You-Go option available



Light point(s)





Run time after a typical day of solar charging

## WARRANTY INFORMATION

The product carries a 2-year warranty with the exception of the following for which the warranty is 1 year: TV remote, solar radio, solar torch. The TV (sold separately) includes a 2-year warranty.

## PERFORMANCE DETAILS \_\_\_\_\_\_\_

			(assuming 5kWh/m²/day)		
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>	
kit	Main lighting unit	5 light points on high totaling 1380 lm and 12 W.	5.4 hours	1.7 hours	
included in kit	Radio	portable (1 Ah battery, 3.7 V nominal voltage, with a power consumption of 0.39 W while in-use)	110 hours	1.7 hours	
in	Torch 1.8 Ah, 88 lumens torch voltage		37 hours	2.3 hours	
ely	Mobile phone	Smart phone (5.7 Wh battery)	13 full charge(s)	0.57 full charge(s)	
sold separately	Television	19" diagonal (8.3 W power consumption while in-use)	14 hours	1 hours	
S O	Fan	fan (28 W)	4 hours	2.5 hours	

Available daily electrical energy<sup>c</sup> (Wh/day)

Performance measure	Brightness setting: 4 lamps and 1 tubelight on high; torch on high		
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.1		
Lighting full battery run time torch (hours)	5.2		
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	8000		

<sup>&</sup>lt;sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>&</sup>lt;sup>b</sup> Without any other loads used during the run time

<sup>&</sup>lt;sup>c</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	сст	Distribution type	Lumen maintenance <sup>h</sup>
Hanging lamp	4	3	high	230	110	86	5779	Wide	100%
Tube light	1	3	high	460	110	87	5890	Wide	100%
Torch	1	2	high	88	67	73	6914	Narrow	96%

SPECIAL FEATUR	RES						
TV	*	Quality verified d.light 19	9"TV available for purchase separately (model number SV19S)				
Housing	*	Available with a metal or plastic housing					
PORTS							
3	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are included.				
3	Barrel jack		12 V ports available to charge devices and power appliances				
4	Lamp Port	-	Barrel jack for lamps				
DURABILITY							
Overall durability a	and workmanship		Pass				
Durability tests pa	ssed		Switch test, Drop test, Strain relief test, physical ingress protection.				
Main Lighting Unit			Water ingress protection not tested, meant for indoor use only.				
Lavalations	to all and	PV module	Has protection from permanent outdoor exposure				
Level of water protection		Torch	Has protection from occasional rain ; met with appropriate warning label				
		radio	Has protection from occasional rain ; met with appropriate warning label				
SOLAR DETAILS							
PV module type			Polycrystalline silicon				
PV maximum pow	rer		40 watts				
BATTERY DETAIL	LS						
Battery replaceability			Not easily replaceable with common tools.				
Battery chemistry			Lithium iron phosphate				
Battery package ty	уре		4x IFR 32700				
Battery capacity			6 Ah (main unit)				
Battery nominal vo	oltage		12.8 V (main unit)				
Battery status indic	cation		LEDs indicate battery state of charge				
MARKS AND CE	RTIFICATIONS						
Factory certificatio	n		ISO 9001:2015; ISO 14001:2015				
PRODUCT DETAI	ILS						
Manufacturer nam	ne		d.light design				
Product name			X850				
Product model / ID number			X850				
Contact informatio	on		testing@dlight.com				
Website			www.dlight.com				
Dimensions (entire product in package)			25 x 33 x 13 cm				
Mass			2605 g				
SSS INFORMATIO	N						
Specs sheet expire			May 31, 2022				
Quality standards framework version			2019				
Revision	·	· · · · · · · · · · · · · · · · · · ·	2019.10				

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

Georelated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

Percent of the original light output that remains after 2,000 hours of run time