

Sunhome 20-1

SP-SH20

Beijing Skyworth Clean Energy Technology Co., LTD

Verify online:

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

Valid until: January 31, 2024

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 for Size B Kits



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

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	3 light points "On" totaling 1260 lumens and 8.4 W power	8.5 hours	2.4 hours
no	not included	Fan	Small fan (16" or smaller diameter, 10 W power)	7.6 hours	2.9 hours
no	not included	TV	Larger than 16" diagonal (18 W power consumption while in use)	4.2 hours	1.2 hours
no	not included	Smartphone	Smart phone (5.7 Wh battery)	9.2 hours	0.59 hours

Available daily electrical energy ^c (Wh/day)	74
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Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	8.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	10700

^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)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
3 W lamp	3	1	On	420	150	76	6600	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		
2	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
5	Barrel jack	 12 V ports available to power light points and appliances and charge devices.
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
	3 W lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		21 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium iron phosphate
Battery package type		4S1P 4*32700
Battery capacity		5.7 Ah
Battery nominal voltage		12.8 V
Battery status indication		Three indicators for battery level.
PRODUCT DETAILS		
Manufacturer name		Beijing Skyworth Clean Energy Technology Co., LTD
Product name		Sunhome 20-1
Product model / ID number		SP-SH20
Contact information		guixi@skyworth.com
Website		https://www.skyworthpv.com/en/?list=37
Co-brand of		Dawn Light, Shenzhen Power-Solution Ind Co., Ltd
Dimensions (entire product in package)		31 x 13 x 20 cm
Mass		1705 g
SSS INFORMATION		
Specs sheet expiration date		January 31, 2024
Revision		2022.01