SolarHome 5000

SEB002-AN-A (Kit) includes: SHB-003 (Hanging Light); SHB-006 (Motion Sensor Light); TV24-01 (24" TV)
BioLite, Inc.

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

PAYG Pay-As-You-Go option available

4 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/m^2/day)		
				Used alone[b]	Used in combination[c]	Featured Combination Main Lighting (4 lamps on high and TV)
yes	included	Main lighting unit	4 light points on (High) totaling 850 lumens and 5.8 W power	15 hours	8.9 hours	7.2 hours
yes	included	Television	24" diagonal (8.4 W power consumption while in-use on "terrestrial" mode)	15 hours	5 hours	8 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	21 full charge(s)	2.7 full charge(s)	--

Available daily electrical energy[c] (Wh/day)   110

Performance measure	Brightness setting: High
Lighting full battery run time[d] for main unit (hours)	15
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	12600

[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]
Hanging Light	3	3	High	210	150	82	5150	Wide	99%
			Low	40		83	5100		- not tested -
Motion Sensor Light	1	4	High	210		82	5150		99%

[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 vieiwing 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

SPECIAL FEATURES			
Security light	★	**Light includes motion sensing setting**	

PORTS			
4	**USB 2.0 type A**		Two USB ports on Main Unit, two USB ports on TV. Mobile phones can be charged from main unit or TV. Adapters are included.
7	**Barrel jack**		12 V ports available to power appliances and light points.
2	**6-pin Minifit**		Expansion port

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test (TV Remote), 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.
	50 W PV module	Has protection from permanent outdoor exposure
	Hanging Light	Water ingress protection not tested, meant for indoor use only.
	Motion Sensor Light	Water ingress protection not tested, meant for indoor use only.
	24" TV	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	47 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium-ion
Specific Li-ion battery chemistry	NMC
Battery package type	4S3P 18650
Battery capacity	7.6 Ah
Battery nominal voltage	14.8 V
Battery status indication	LED screen on main unit displays battery state of charge and hours until an empty battery.

MARKS AND CERTIFICATIONS	
Factory certification	ISO 90001:2015
Other certification	CE (control box)

PRODUCT DETAILS	
Manufacturer name	BioLite, Inc.
Product name	SolarHome 5000
Product model / ID number	SEB002-AN-A (Kit) includes: SHB-003 (Hanging Light); SHB-006 (Motion Sensor Light); TV24-01 (24" TV)
Contact information	Ethan@bioliteenergy.com
Website	http://bioliteglobal.com/
Dimensions (entire product in package)	100 x 44 x 191.4 cm
Mass	11400 g

SSS INFORMATION	
Specs sheet expiration date	February 28, 2023
Quality standards framework version	IEC TS 62257-9-8:2021
Revision	2021.02