

# SolarHome 5000

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

Verify online:

<https://data.verasol.org/products/sek/bio-shs5000>

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

Valid until: August 31, 2023



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 <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)		
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>	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<sup>e</sup> (Wh/day) 110

Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> 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

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

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> 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>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
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		

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.



<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> 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
<b>DURABILITY</b>			
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.	
<b>SOLAR DETAILS</b>			
PV module type		Polycrystalline silicon	
PV maximum power		47 watts	
<b>MAIN UNIT BATTERY DETAILS</b>			
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.	
<b>MARKS AND CERTIFICATIONS</b>			
Factory certification		ISO 90001:2015	
Other certification		CE (control box)	
<b>PRODUCT DETAILS</b>			
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		<a href="http://bioliteglobal.com/">http://bioliteglobal.com/</a>	
Dimensions (entire product in package)		100 x 44 x 191.4 cm	
Mass		11400 g	
<b>SSS INFORMATION</b>			
Specs sheet expiration date		August 31, 2023	
Quality standards framework version		IEC TS 62257-9-8:2021	
Revision		2023.02	