

SolarHome 5000+

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Brand name: BioLite

Results based on test procedures detailed in IEC TS 62257-9-5:2018 and IEC TS 62257-9-8:2020

Verify online:

<https://data.verasol.org/products/sek/bio-SH5000plus>

Valid until: December 31, 2026



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

PAYG

Mobile charging

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

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 hanging lights and 1 motion sensor light (High) totaling 800 lumens and 5.7W power	18 hours	10 hours
yes	included	Television	24" diagonal (8.4 W power consumption while in-use on "terrestrial" mode)	17 hours	not tested
yes	not included	Television	32" diagonal (8.4 W power consumption while in-use on "terrestrial" mode)	17 hours	5.8 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	21 full charge(s)	3.2 full charge(s)

Available daily electrical energy [Wh/day]	5
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Performance measure	Brightness setting: high
Lighting full battery run timed for main unit [hours]	18
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	14400

^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 name	Light output [lm]	Power Consumption [W]	Lumen efficacy ^e [lm/W]	CRI ^f	CCT ^g	Lumen maintenance ^h
Hanging light	3	3	High	200	1.4	144	84	5000	100
Motion light	1	3	High	200	1.6	144	84	5000	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 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			
Individual switch			The hanging lamps and motion sensor lamp have individual switches.
PORTS			
2	USB 2.0 type A		Mobile phones can be charged. Adapters are included.
4	Barrel jack		12 V ports available to power appliances and light points.
2	Other		12 V ports available to power PAYG appliances and TVs
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	
SOLAR DETAILS			
PV Module Type		Polycrystalline silicon	
PV Maximum Power		49 W	
PV Rated Power		50 W	
PV Open-Circuit Voltage (V _{OC})		26.22 V	
MAIN UNIT BATTERY DETAILS			
Battery Replaceability		Not easily replaceable with common tools.	
Battery Chemistry		Lithium iron phosphate	
Battery Capacity (tested)		8.3 Ah	
Battery Capacity (rated)		7.6 Ah	
Battery Nominal Voltage		12.8 V	
Battery status / other indicator lights		One screen displays battery level, PV charging rate, remaining usage time, PAYG and customer service.	
PRODUCT DETAILS			
Company Name (full)		BioLite Inc.	
Company Name ("brand")		BioLite	
Product Name		SolarHome 5000+	
Product Model or ID Number		SolarHome 5000+	
Company Contact Information		ethan@bioliteenergy.com	
Company Website		http://bioliteglobal.com/	
Mass		n/a	
SSS INFORMATION			
Expiration Date		December 31, 2026	
Revision		2025.08	