

SolarHome 5000+

SolarHome 5000+
BioLite Inc.

Verify online:

<https://data.verasol.org/products/sek/bio-shs5000plus>

Valid until: December 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

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
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	not included	Television	24" diagonal (8.4 W power consumption while in-use on "terrestrial" mode)	17 hours	-- hours
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 ^c (Wh/day)	121
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Performance measure	Brightness setting: high
Lighting full battery run time ^d 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	Light output (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Hanging light	3	3	High	200	144	84	5000	Wide	100%
Motion sensor light	1	3	High	200	144	84	5000	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

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.	
6	Barrel jack  12 V ports available to power appliances and light points.	
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
	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.
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	49 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Battery package type	--	
Battery capacity	8.3 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		
Manufacturer name	BioLite Inc.	
Product name	SolarHome 5000+	
Product model / ID number	SolarHome 5000+	
Contact information	ethan@bioliteenergy.com	
Website	http://bioliteglobal.com/	
Dimensions (entire product in package)	25 x 18.5 x 7 cm	
Mass	8660 g	
SSS INFORMATION		
Specs sheet expiration date	December 31, 2024	
Revision	2022.12	