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

✔ **Meets the Requirements in IEC TS 62257-9-8:2020 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	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

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)	1440

[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.

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	84	5000	130	100
Motion light	1	3	High	200	1.6	84	5000	130	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@biolitenergy.com
Company Website	http://bioliteglobal.com/
Mass	n/a

SSS INFORMATION

Expiration Date	December 31, 2026
Revision	2025.07