

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: February 28, 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 ^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 (3x Hanging Lights) 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 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 | | |
|--|--|--|
| 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 |