

# SolarHome 620 Plus

SH620+ / SHA03XX (kit), which includes the SHB-007/SHB-011 (hanging light), and SHB-008/SHB-012 (security light)  
BioLite, Inc.

Results based on test procedures detailed in  
IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/bio-sh620plus>

Valid until: November 30, 2022



Meets the Lighting Global Pico-PV Quality Standards



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. The full warranty details are available on the company website.

## PERFORMANCE DETAILS

	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>
included in kit	Main lighting unit	2 hanging lamps, 1 motion lamp, and 1 integrated lamp on (High) totaling 440 lumens and 3.1 W power	5.7 hours	4 hours
	Radio	Integrated battery with a power consumption of 0.17 W while in-use	132 hours	3 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	3.8 full charge(s)	1 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day) 17

Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> for main unit (hours)	6.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2500

<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>a</sup> (lm/W)	CR <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Hanging Light	2	3	High	130	160	81	5000	Wide	99%
Security Light	1	3	High	130	150	81	5000	Wide	99%
Integrated Light	1	3	High	50	80	80	5000	Wide	99%

<sup>a</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		
Radio	★	Integrated radio with MP3 function
PAYG	★	Pay-as-you-go enabled
PORTS		
2	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
2	Barrel jack	 Two 12 V ports available to power lights. Each light cable includes an extension port to plug in an additional light.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection.
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 Lamp	Water ingress protection not tested, meant for indoor use only.
	Motion Lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		6 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		2 x 26650 2S1P
Battery capacity		3.6 Ah
Battery nominal voltage		6.4 V (measured typical battery discharge voltage 6.5 V)
Battery status indication		One screen can display information for the battery.
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015; ISO 14001:2015
PRODUCT DETAILS		
Manufacturer name		BioLite, Inc.
Product name		SolarHome 620 Plus
Product model / ID number		SH620+ / SHA03XX (kit), which includes the SHB-007/SHB-011 (hanging light), and SHB-008/SHB-012 (security light)
Contact information		Ethan@bioliteenergy.com
Website		<a href="http://bioliteglobal.com/">http://bioliteglobal.com/</a>
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		1775 g
SSS INFORMATION		
Specs sheet expiration date		November 30, 2022
Quality standards framework version		2020
Revision		2020.11