

# SolarHome 625

SH625  
BioLite Inc.

Verify online:  
<https://data.verasol.org/products/sek/bio-sh625>  
Valid until: April 30, 2025

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



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covers manufacturing defects for the entire product.

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	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>
yes	included	Main lighting unit	4 light points on high totaling 470 lumens and 3.35W power	6 hours	4.5 hours
yes	included	Integrated Radio	Integrated radio with a power consumption of 0.34W while in-use	69 hours	3.4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	4.5 full charge(s)	1.1 full charge(s)

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

21

Performance measure	Brightness setting: high
Lighting full battery run time <sup>d</sup> for main unit (hours)	6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3060

<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>e</sup> (lm/W)	CR <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Integrated Light	1	3	High	80	140	80	5000	Wide	100%
Hanging Light	2	3	High	130	160	80	5000	Wide	100%
Motion Sensor Light	1	3	High	130	150	80	5000	--	100%

<sup>e</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		
Individual switch	★ The hanging light and motion light both have individual switches.	
Multi-source radio	★ The integrated radio can be played via FM or MP3.	
PORTS		
2	USB 2.0 type A  Mobile phones can be charged. Adapter is included.	
2	Barrel jack  12V port available to power included 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 and Motion lights	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	6.4 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Specific Li-ion battery chemistry	lithium iron phosphate	
Battery package type	26650	
Battery capacity	3.9 Ah	
Battery nominal voltage	6.4 V	
Battery status/ other indicator lights	One screen on the front of the control box that shows the battery level, time, solar strength, radio, payment, and serial number.	
PRODUCT DETAILS		
Manufacturer name	BioLite Inc.	
Product name	SolarHome 625	
Product model / ID number	SH625	
Contact information	ethan@bioliteenergy.com	
Website	<a href="https://www.bioliteenergy.com/">https://www.bioliteenergy.com/</a>	
Dimensions (entire product in package)	29.5 x 18.5 x 20.2 cm	
Mass	2320 g	
SSS INFORMATION		
Specs sheet expiration date	April 30, 2025	
Revision	2023.03	