

SolarHome 620

SHX1001 (locked), SHX1101 (unlocked), SHX1002 (Angaza), SHX1003 (Baobab+)
BioLite, Inc.

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

Verify online:

www.lightingglobal.org/products/bio-sh620

Valid until December 31, 2021



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 defects in workmanship and materials

PERFORMANCE DETAILS

	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	4 light points on high totaling 430 lumens and 3.9 W power	4 hours	3.3 hours
	Radio	integrated radio with a power consumption of 0.17 W while in use	130 hours	2.5 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	3.8 full charge(s)	0.8 full charge(s)

Available daily electrical energy^c (Wh/day) 17

Performance measure	Brightness setting: Two hanging lights, one security light, and one integrated light on high
Lighting full battery run time ^d for main unit (hours)	4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	1700

^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	2	3	High	120	127	72	5100	Wide	99%
			Low	17	114	72	5000	--	--
Security light	1	3	High	120	120	72	5200	Wide	99%
			Low	18	112	72	5100	--	--
Integrated light	1	3	High	68	70	72	5000	Wide	99%
			Low	11	75	72	5000	--	--

^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		
Radio	★ Integrated radio with MP3 function	
PAYG	★ Pay-as-you-go enabled (SHX1001, SHX1002, SHX1003)	
PORTS		
1	USB 2.0 type A  Mobile phones can be charged. Adapters are included.	
2	Barrel jack  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 Lighting 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	6.3 watts	
BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Battery package type	2x 26650 2S1P	
Battery capacity	3.4 Ah	
Battery nominal voltage	6.5 V	
Battery status indication	There is a LCD panel showing the status (e.g. battery level, sun light level, PAYG code, etc.) of the unit.	
MARKS AND CERTIFICATIONS		
Factory certification	ISO 9001:2015; ISO14001:2015	
PRODUCT DETAILS		
Manufacturer name	BioLite, Inc.	
Product name	SolarHome 620	
Product model / ID number	SHX1001 (locked), SHX1101 (unlocked), SHX1002 (Angaza), SHX1003 (Baobab+)	
Contact information	Ethan@bioliteenergy.com	
Website	www.bioliteenergy.com	
Dimensions (entire product in package)	31 x 17.8 x 22.6 cm	
Mass	2700 g	
SSS INFORMATION		
Specs sheet expiration date	December 31, 2021	
Quality standards framework version	2019	
Revision	2019.12	