SolarHome 620-R+

SH620R+ (kit); includes SHB-007/011 (hanging light) and SHB-008/012 (security light) BioLite, Inc.

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

Verify online

https://data.verasol.org/products/sek/bio-sh620rplus

Valid until: May 31, 2023



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging



Pay-As-You-Go option available



Light point(s)



Plug-and-play



Run time after a typical day of solar charging

WARRANTY INFORMATION

A 2-year warranty covering defects in workmanship and materials

PERFORMANCE DETAILS

				(assuming 5	kWh/m²/day)
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	4 light points on (high) [1 integrated light, 2 hanging lights, 1 security light] totaling 420 lumens and 2.4 W power	5.8 hours	4.1 hours
yes	included	Radio	integrated battery with a power consumption of 0.17 W while in-use	130 hours	3.1 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	3.8 full charge(s)	1 full charge(s)

Available daily elec	trical energy ^c (Wh/day)	17
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Performance measure	Brightness setting: One integrated light - high Two hanging lights - high One security light - high
Lighting full battery run time ^d for main unit (hours)	5.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2450

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

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 (Im/W)	CRI ^f	сст ⁹	Distribution type	Lumen maintenance ^h
Integrated light	1	3	High	30	80	80	5000	Wide	99%
Hanging light	2	3	High	130	160	81	5000	Wide	99%
Security light	1	3	High	130	150	81	5000	Wide	99%

^e Lumen efficacy is the power consumption at a light point during the light output test.

PORT:

^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.

^fColor Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

⁹ 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

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, PV durability tests				
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.				
Level of water protection	PV module	Has protection from permanent outdoor exposure				
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		2x 26650 2S1P				
Battery capacity		3.6 Ah				
Battery nominal voltage		6.4 (measured typical battery discharge voltage 6.5 V) V				
Battery status indication		There is a LCD panel showing the status (e.g. battery level, sun light level, PAYG code, etc.) unit.				
MARKS AND CERTIFICATIONS						
Factory certification		ISO 9001:2015; ISO14001:2015				
PRODUCT DETAILS						
Manufacturer name		BioLite, Inc.				
Product name		SolarHome 620-R+				
Product model / ID number		SH620R+ (kit); includes SHB-007/011 (hanging light) and SHB-008/012 (security light)				
Contact information		Ethan@bioliteenergy.com				
Website		http://bioliteglobal.com/				
Dimensions (entire product in package)		20.5 x 29.5 x 18 cm				
Mass		2405 g				
SSS INFORMATION						
Specs sheet expiration date		May 31, 2023				
Quality standards framework version		2020				
Revision		2023.02				