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



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging



Pay-As-You-Go option available



Light point(s)



Plug-and-play



WARRANTY INFORMATION PERFORMANCE DETAILS

A 2-year warranty covering defects in workmanship and materials

				Run time after a typical day of solar charging (assuming 5kWh/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 electrical energy ^c (Wh/day)	17

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	CCT ^g	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.

^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

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 pa	ssed		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				
SOLAR DETAILS							
PV module type			Polycrystalline silicon				
PV maximum power			6 watts				
MAIN UNIT BATT	ERY 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.) of the unit				
MARKS AND CEI	RTIFICATIONS						
Factory certificatio	on		ISO 9001:2015; ISO14001:2015				
PRODUCT DETA	ILS						
Manufacturer nam	ne		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				
SS INFORMATIO	N						
Specs sheet expiration date			June 30, 2022				
Quality standards framework version			2020				
Revision			2021.03				