

Sun King Home 120 Solar Lamp System

SK-409
Greenlight Planet

Verify online:
<https://data.verasol.org/products/sek/glp-skhome120>
Valid until: June 30, 2023

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



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 light points on Turbo totaling 690 lumens and 5.1 W power	4.4 hours	4 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	6 full charge(s)	1 full charge(s)

Available daily electrical energy ^c (Wh/day)	27
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Performance measure	Brightness setting: Turbo
Lighting full battery run time ^d for main unit (hours)	4.4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2640

^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
200 lm Lamp	3	3	Turbo	200	130	72	4900	Wide	100%
			Normal	140	140		4800	--	--
			Low	51	140		4700	--	--

^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

PORTS		
1	USB 2.0 type A	 USB for charging mobile phones. Adaptors are included.
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
	200 lm Lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		12 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		4x18650
Battery capacity		12 Ah
Battery nominal voltage		3.3 V
Battery status indication		Five indicators for battery state of charge and five indicators for PV charging rate
MARKS AND CERTIFICATIONS		
Factory certification		ISO 14001:2015, ISO 9001:2018
PRODUCT DETAILS		
Manufacturer name		Greenlight Planet
Product name		Sun King Home 120 Solar Lamp System
Product model / ID number		SK-409
Contact information		sales@greenlightplanet.com
Website		www.greenlightplanet.com
Dimensions (entire product in package)		29 x 36.5 x 13 cm
Mass		3230 g
SSS INFORMATION		
Specs sheet expiration date		June 30, 2023
Quality standards framework version		2020
Revision		2023.03