

# Sun King Home 60

SK405  
Greenlight Planet

Verify online:  
<https://data.verasol.org/products/sek/glp-skhome>  
Valid until: December 31, 2022

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



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

3

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

## 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	3 light points on Turbo totaling 300 lumens and .5 W power	5.2 hours	4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	3 full charge(s)	1 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	14
---	----

Performance measure	Brightness setting: Turbo
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1610

<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)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
100 lm lamp	3	3	Turbo	100	110	65	4230	Wide	100%
			Normal	58	140	--	--		- not tested -
			Low	--	--	--	--		- not tested -

<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

PORTS		
2	USB 2.0 type A	 Mobile phones can be charged, adaptors are included.
2	Barrel jack	 Two 12 V barrel jacks available to power light points only.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection
Level of water protection	Main Unit	Has protection from occasional rain; met IPX1
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		6.1 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium iron phosphate
Battery package type		4x18650
Battery capacity		5.9 Ah
Battery nominal voltage		3.3 V
Battery status indication		Five digital LED meter to display the remaining battery power and five digital LED meter to display charge effectiveness on a scale of 1 to 5 to help optimize solar module placement.
MARKS AND CERTIFICATIONS		
Factory certification		ISO 14001:2015, ISO 9001:2015
PRODUCT DETAILS		
Manufacturer name		Greenlight Planet
Product name		Sun King Home 60
Product model / ID number		SK405
Contact information		sales@greenlightplanet.com
Website		www.greenlightplanet.com
Dimensions (entire product in package)		31 x 16 x 19 cm
Mass		2437 g
SSS INFORMATION		
Specs sheet expiration date		December 31, 2022
Quality standards framework version		2020
Revision		2021.05