

Sun King Home 40Z

SK-410 / SK-411
Greenlight Planet

Verify online:

<https://data.verasol.org/products/sek/glp-sk40z>

Valid until: August 31, 2021

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



Meets the Lighting Global Pico-PV 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	95 lm Lamp	2 light points on Turbo totaling 190 lumens and 1.6 W power	4.4 hours	3.6 hours
yes	included	Sun King Pico 50 Lamp	1 light point on Turbo totaling 45 lumens and 0.37 W power	16.8 hours	3.6 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	2.5 full charge(s)	0.9 full charge(s)

Available daily electrical energy ^c (Wh/day)	11
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Performance measure	Brightness setting: Turbo
Lighting full battery run time ^d for main unit (hours)	4.9
Lighting full battery run time of the Sun King Pico 50 Lamp powered by Sun King Pico 50 Lamp battery (hours)	4.6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1140

^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
95 lm Lamp	2	3	Turbo	95	120	72	4900	Wide	100%
Sun King Pico 50 Lamp	1	3	Turbo	45	130	73	4800	Wide	98%

^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		
Enclosure	★ Made from ABS Plastic	
PAYG	★ The Sun King Home 40Z Easy Buy (SK-410) is Pay-As-You-Go enabled. The Sun King Home 40Z (SK-411) is the non-PAYG version.	
PORTS		
1	USB 2.0 type A  Portable Lamp and mobile phones can be charged.	
3	Barrel jack  Two 9.2 V ports available for light points only.	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop 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
	Sun King Pico 50 Lamp	Has protection from occasional rain; met IPX1
	Hanging Lamp	Has protection from frequent rain; met IPX3
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	4 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Battery package type	26650 for Main Unit; 14500 for Sun King Pico 50 Lamp	
Battery capacity	3.2 Ah	
Battery nominal voltage	3.3 V	
Battery status indication	5 LEDs display the remaining battery power.	
MARKS AND CERTIFICATIONS		
Factory certification	ISO 9001:2000, ISO 14001:2004	
PRODUCT DETAILS		
Manufacturer name	Greenlight Planet	
Product name	Sun King Home 40Z	
Product model / ID number	SK-410 / SK-411	
Contact information	sales@greenlightplanet.com	
Website	www.greenlightplanet.com	
Dimensions (entire product in package)	20 x 19 x 12.5 cm	
Mass	1530 g	
SSS INFORMATION		
Specs sheet expiration date	August 31, 2021	
Quality standards framework version	2020	
Revision	2021.03	