Sun King Home 40Z

SK-410 / SK-411
Greenlight Planet

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/m²/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	2 light points on Turbo totaling 190 lumens and 1.6 W power	4.4 hours	3.6 hours
yes	included	Portable 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

Performance measure	Brightness setting: Turbo
Lighting full battery run time[d] for main unit (hours)	4.9
Lighting full battery run time of the portable lamp powered by portable lamp battery (hours)	3.6
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]
Overhead Lamp	2	3	Turbo	95	120	72	4900	Wide	100%
Portable 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.
2	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
	Portable lamp	Has protection from occasional rain; met IPX1
	Overhead 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
Specific Li-ion battery chemistry	lithium iron phosphate
Battery package type	26650 for Main Unit; 14500 for portable 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 9001:2015, ISO 14001:2015

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, 2023
Revision	2021.09