Sun King Home 40 Plus

SK-417/SK-419
Greenlight Planet Inc/ Sun King

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8

✓ **Meets the Requirements in IEC TS 62257-9-8:2020 for Size A kits**

Mobile charging

PAYG **Pay-As-You-Go option available**

2 **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects for the system

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 390 lumens and 2.6 W of power	7.2 hours	4.9 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	3.6 full charge(s)	1.2 full charge(s)

Available daily electrical energy[c] (Wh/day)	17

Performance measure	Brightness setting: turbo
Lighting full battery run time[d] for main unit (hours)	7.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2880

[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]
LED Tubelight	2	3	Turbo	200	160	82	6100	Wide	100%

[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

PAYG	★	The Sun King Home 40 Plus Easy Buy (SK-419) is Pay-As-You-Go enabled. The Sun King Home 40 Plus Easy Buy (SK-417) is the non-PAYG version.

PORTS

1	yes		Mobile phones can be charged. Adapters are not included.
2	yes		5 V Ports available to power appliances and light points.

DURABILITY

Overall durability and workmanship		Pass
Durability tests passed		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
	Tube Light	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	5.4 watts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry	Lithium-ion
Specific Li-ion battery chemistry	lithium nickel manganese cobalt oxide
Battery package type	18650
Battery capacity	2.61 Ah
Battery nominal voltage	7.4 V
Battery status/ other indicator lights	Four digital LED meters to display the remaining battery power

PRODUCT DETAILS

Manufacturer name	Greenlight Planet Inc/ Sun King
Product name	Sun King Home 40 Plus
Product model / ID number	SK-417/SK-419
Contact information	sales@sunking.com
Website	sunking.com
Dimensions (entire product in package)	57 x 11 x 7 cm
Mass	1590 g

SSS INFORMATION

Specs sheet expiration date	October 31, 2025
Revision	2024.01