

Home 40 Plus / Home 40 Plus with EasyBuy

SK-417/SK-419

Brand name: Sun King

Results based on test procedures detailed in IEC TS 62257-9-5:2018 and IEC TS 62257-9-8:2020

Verify online:

<https://data.verasol.org/products/sek/glp-sk40plus>

Valid until:

October 31, 2027



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 in the system.

PERFORMANCE DETAILS

| | | | | Run time after a typical day of solar charging (assuming 5kWh/m ² /day) | |
|--------------------|------------------|------------------------|--|---|----------------------------------|
| VeraSol Certified? | Included in kit? | Appliance ^a | Description | 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 [Wh/day] | 17 |
|--|----|

| Performance measure | Brightness setting: Two tubelights on turbo |
|---|---|
| Lighting full battery run time 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 name | Light output [lm] | Power Consumption [W] | Lumen efficacy ^e [lm/W] | CRI ^f | CCT ^g | Lumen maintenance ^h |
| Tubelight | 2 | 3 | turbo | 200 | 1.3 | 160 | 82 | 6100 | 100 |
| | | | normal | 120 | 0.73 | | | | not tested |

^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 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**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

USB 2.0 type A



Mobile phones can be charged. Adapters are included.

2

Barrel jack



7.4 V ports available power 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 | Permanent rooftop installation for PV modules |
| | Tubelight | Water ingress protection not tested, meant for indoor use only. |

SOLAR DETAILS

| | |
|--------------------------------------|-------------------------|
| PV Module Type | Polycrystalline silicon |
| PV Maximum Power | 5.4 W |
| PV Rated Power | 5.5 W |
| PV Open-Circuit Voltage (V_{oc}) | 13 V |

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 | 18650 |
| Battery Capacity (tested) | 2.6 Ah |
| Battery Capacity (rated) | 2.55 Ah |
| Battery Nominal Voltage | 7.4 V |
| Battery status / other indicator lights | Four digital LED meters to display the remaining battery power |

PRODUCT DETAILS

| | |
|-----------------------------|--|
| Company Name (full) | Greenlight Planet Inc. |
| Company Name ("brand") | Sun King |
| Product Name | Home 40 Plus / Home 40 Plus with EasyBuy |
| Product Model or ID Number | SK-417/SK-419 |
| Company Contact Information | sales@sunking.com |
| Company Website | www.sunking.com |
| Mass | 1530 g |

SSS INFORMATION

| | |
|-----------------|------------------|
| Expiration Date | October 31, 2027 |
| Revision | 2025.11 |