

VeraSol

Standardized Specifications Book

Manufacturer: Greenlight Planet

Component Family Name: Sun King Home 200X Family

Date of Standardized Specifications Book Expiration: June 30, 2024

Verify Online: <https://data.verasol.org/products/sek/glp-skhome200Xfamily>

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This VeraSol Standardized Specifications Book presents a **component-level Standardized Specifications Sheet** listing the available components in the product family by component type, each individual component's performance rating, and performance results for each component tested according to the Edition 4 of IEC 62257-9-5. Following the component-level Standardized Specifications Sheet is a **list of the systems** covered by this Specifications Book that use combinations of these components.

NOTICE: Systems or kits developed using components from the component family will each perform differently and have not all been evaluated on a system-level basis. All systems listed in this Specifications Book are regarded to have passed the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8.

Revision: 2024.03

Component-Level Standardized Specifications Sheet

Greenlight Planet

Sun King Home 200X Family

Battery / Control Box

| Name / Model Number | Battery Chemistry | Nominal Voltage (V) | Battery Capacity Rating (Ah) | Measured Battery Capacity (Ah) |
|----------------------|-------------------|---------------------|------------------------------|--------------------------------|
| 2.55 Ah NMC battery | Lithium-ion | 11.1 | 2.55 | 2.55 |
| 10.2 Ah battery pack | Lithium-ion | 11.1 | 10.2 | 10 |

PV Module

| Name / Model Number | Peak Power at STC Rating (W) | Measured Peak Power at STC (W) |
|---------------------|------------------------------|--------------------------------|
| 11 W PV | 11 | 11.3 |
| 15 W PV | 15 | Not tested |
| 36 W PV | 36 | 33 |
| 50 W PV | 50 | 45 |

Light Sources*

| Name / Model Number | Luminous Flux Rating (lm) | | Measured Luminous Flux (lm) | | Measured Lamp Efficacy (lm/W) | |
|------------------------------|---------------------------|--------|-----------------------------|------------|-------------------------------|------------|
| | Turbo | Medium | Turbo | Medium | Turbo | Medium |
| Tubelight (SK-705) | 200 | 120 | 190 | 120 | 160 | 160 |
| Motion Sensor Light (SK-703) | 100 | -- | not tested | not tested | not tested | not tested |

Appliances*

| Name / Model Number | Description | Rated Power (W) | Measured Power During Use (W) | Rated Battery Capacity (Ah) | Measured Battery Capacity (Ah) |
|----------------------------|--------------|-----------------|-------------------------------|-----------------------------|--------------------------------|
| 24" LED (DVB-T2/S2 LED TV) | 24" diagonal | -- | 6.9 | - n/a - | - n/a - |
| 32" LED (DVB-T2/S2 LED TV) | 32" diagonal | 8 | 7.3 | - n/a - | - n/a - |

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in Edition 4 of IEC 62257-9-5. However, based on the satisfactory performance of the tested components in the family, the components that were not tested are regarded to have passed the applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8. In addition, all tested components passed an internal inspection, the full array of applicable QTM durability tests, as well as ingress protection testing (where applicable).

*Light points and appliances may perform differently when used with different systems.

List of Covered Systems

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Sun King Home 200X Family

| System Name | Number of each component included in each system | | | | | | | | | |
|--|--|---------------------|---------|---------|----------------|----------------|------------------------------------|--------------------------------|--------|--------|
| | Tubelight | Motion Sensor Light | 11 W PV | 15 W PV | 36 W PV module | 50 W PV module | main unit with 2.55 Ah NMC battery | 10.2 Ah battery expansion pack | 24" TV | 32" TV |
| **Sun King Home 200X (SK-434) | 3 | -- | 1 | -- | -- | -- | 1 | -- | | |
| Sun King Home 200X (non-PAYG) (SK-432) | 3 | -- | 1 | -- | -- | -- | 1 | -- | | |
| Sun King Home 200X with EasyBuy (SK-434-EX) | 3 | -- | 1 | -- | 0-1 | -- | 1 | 0-1 | | |
| Sun King Home 200X with EasyBuy (GSM enabled) (SK-435) | 3 | -- | 1 | -- | 0-1 | -- | 1 | 0-1 | | |
| Sun King Home 200X Plus with EasyBuy (SK-436) | 3 | -- | -- | 1 | 0-1 | -- | 1 | 0-1 | | |
| Sun King Home 200X Plus with EasyBuy (GSM enabled) (SK-437) | 3 | -- | -- | 1 | 0-1 | -- | 1 | 0-1 | | |
| Sun King Home 500X Easybuy (SK-522) | 4 | 1 | -- | -- | -- | 1 | 1 | 1 | 0-1 | 0-1 |
| Sun King Home 500X Easybuy(GSM enabled) (SK-523) | 4 | 1 | -- | -- | -- | 1 | 1 | 1 | 0-1 | 0-1 |

**Tested as a full system. Individual SSS available on VeraSol website.

NOTICE:

Only the Sun King Home 200X (SK434) was fully tested as a system according to Edition 4 of IEC 62257-9-5. An Individual Standardized Specifications Sheet (SSS) that reports system-level performance is available for the Sun King Home 200X (SK434) at <https://data.verasol.org/products/sek/glp-skhome200X/>. Systems that were not tested, but that were developed using components from the component family will perform differently than the system(s) shown in the individual system-level SSS. All systems listed above are regarded to have passed the applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8.

Unless otherwise noted, the following information applies to all listed systems and components:

Warranty Information

Two year warranty on all kits and components

Available Daily Electrical Energy and Port Information

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Sun King Home 200X Family

| System Name | Available Daily Electrical Energy (Wh/day) | Includes ports for charging? |
|--------------------------------------|--|------------------------------|
| **Sun King Home 200X (SK-434) | 25 | yes |

**Tested as full systems. Individual SSS available on VeraSol website.

NOTICE:

The available daily electrical energy (Wh/day) is calculated for fully tested systems following the energy service calculations as described in IEC/TS 62257-9-5 Ed. 4. For products in a family that are not tested as a full system, estimations of available daily electrical energy (Wh/day) are calculated according to an alternative method using data from the test reports of fully-tested products and components. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.