

VeraSol

Standardized Specifications Book

Manufacturer: Greenlight Planet

Component Family Name: Sun King Home Family

Date of Standardized Specifications Book Expiration: December 31, 2022

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

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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*.

Quality Standards Framework Version: 2020

Revision: 2021.05

Component-Level Standardized Specifications Sheet

Greenlight Planet

Sun King Home Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
6 Ah battery	Lithium iron phosphate	3.3	6	5.9
12 Ah Battery	Lithium iron phosphate	3.3	12	12

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
6W Solar Panel	6	6
12 W Solar Panel	12	12

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
100 lm lamp	100	50	20	100	50	--	110	120	--
200 lm Lamp	200	120	40	230	140	51	130	140	140
Motion Sensor Lamp*	50	--	37	95	--	34	130	--	97

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
Sun King Portable Sound System SK710	portable radio with internal battery; charges via USB	--	0.35	1	1

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

Greenlight Planet

Sun King Home Family

System Name	Number of each component included in each system								
	100 lm Lamp	200 lm Lamp	Motion Sensor Lamp	Sun King Portable Sound System	PAYG	6 Ah Battery	12 Ah Battery	6 W PV Module	12 W PV Module
SK403 Sun King Home 60***	3					1		1	
SK405 Sun King Home 60 Easybuy	3				Y	1		1	
SK406 Sun King Home 60 Easybuy	3				Y	1		1	
SK407 Sun King Home 120***		3					1		1
SK409 Sun King Home 120 Easybuy		3			Y		1		1
SK414 Sun King Home 120 Easybuy		4			Y		1		1
SK415 Sun King Home 120Plus Easybuy		4	1		Y		1		1

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

NOTICE:

Only the Sun King Home 60 was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Sun King Home 60 at <https://data.verasol.org>. 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; one year warranty on radio

Marks and Certifications

Factory certification

ISO 9001:2015; ISO 14001:2015

Available Daily Electrical Energy and Port Information

Greenlight Planet
Sun King Home Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Sun King Home 60**	14	yes
Sun King Home 120**	27	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.