

VeraSol Standardized Specifications Book

Manufacturer: Greenlight Planet

Component Family Name: Sun King Home 400 Family

Date of Standardized Specifications Book Expiration: August 31, 2021

Verify Online: <https://data.verasol.org/products/sek/glp-skhome400family>

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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.

Quality Standards Framework Version: 2020

Revision: 2021.06

Component-Level Standardized Specifications Sheet

Greenlight Planet

Sun King Home 400 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	2.5	2.6
5.1 Ah NMC Battery	Lithium-ion	11.1	5.1	not tested
12.5 Ah NMC battery (daily discharge limited to 90 Wh)	Lithium-ion	11.1	12.5	12.5 (daily discharge limited to 86 Wh)
12.5 Ah NMC battery (daily discharge limited to 120 Wh)	Lithium-ion	11.1	12.5	12.5 (daily discharge limit not tested)

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
20 W PV Module	20	20
40 W PV Module	40	38
60 W PV Module	60	57

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*	100	--	37	95	--	34	130	--	97
Tubelight	400	200	40	370	--	33	95	--	96

*motion sensor can be set to provide 100 lm for 30 seconds after detecting motion

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
19" LED (DVB-T2 LED TV)	19" diagonal	8	7.8	- n/a -	- n/a -
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 -
Radio (SK710)	portable radio with 3.7 V Li-ion battery	--	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. 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 400 Family

Number of each component included in each system

System Name	100 lm lamp	200 lm lamp	400 lm tubelight	motion sensor lamp	radio SK710	2.55 Ah NMC battery	5.1 Ah NMC battery	12.5 Ah NMC battery (daily discharge limited to 90 Wh)	12.5 Ah NMC battery (daily discharge limited to 120 Wh)	20 W PV Module	40 W PV module	60 W PV module	19" TV SK733	24" TV SK735	32" TV SK737
Sun King Home 400 (SK-501)		2	2	1				1			1		0-1	0-1	0-1
Sun King Home 400 EasyBuy (SK-503)**		2	2	1				1			1		1		
Sun King Home 400 EasyBuy (SK-505)**		2	2	1				1			1		1		
Sun King Home 400MINI(SK-505-C/D/E01000)			1					1			1		0-1	0-1	0-1
Sun King Home 60 Easybuy (SK-505-000000-3-IH)	3					1				1					
Sun King Home 120 Plus Easybuy (SK-505-040100-HH)		4		1	1		1			1					
Sun King Home 60 Easybuy (SK-423)	3					1				1					
Sun King Home 120 Plus Easybuy (SK-425)		4		1	1		1			1					
Sun King Home 600 Easybuy (SK-506)		2	2	1					1			1	0-1	0-1	0-1

Sun King Home 600 Easybuy (SK-508)		2	2	1					1			1	0-1	0-1	0-1
Sun King Home 600MINI EasyBuy (SK-511)			1						1			1	0-1	0-1	0-1
Sun King Home 400 EasyBuy (SK-515)		2	2	1					1		1		0-1	0-1	0-1
Sun King Home 600GSM EasyBuy(SK-518)		2	2	1					1			1	0-1	0-1	0-1
Sun King Home 600GSM EasyBuy(SK-516)		2	2	1					1			1	0-1	0-1	0-1

The SKUs in the table are interpreted as follows. In SK5xxx[-XXXXXX]-[XXXXXX]-[XX]:

When the digits in [XXXXXX]-[XXXXXX]-[XX] are shown, the default components may be changed as follows:

Digit1 - the type of TV : C - 19" TV(T2/S2/C + CI) ; D- 24" TV(T2/S2/C + CI); E- 32" TV(T2/S2/C + CI); 0 - no TV included.

Digit2 - the qty of 200 lm Overhead Light.

Digit3 - the qty of 400 lm Tubelight

Digit4 - the qty of Motion Sensor Lamp

Digit5 - the qty of the SK710 Radio

Digit6 - reserved for future components

Digit7 - the qty of 100 lm Lamp

Digits8 -12 - reserved for future components

Digit13 - the type of battery: B - 12.5Ah; H - 5.1Ah; I - 2.55Ah

Digit14 - the type of solar panel : A - 18V/40W; B - 18V/60W; H - 18V/20W

NOTICE:

Only the Sun King Home Easybuy (SK503/SK505) 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 Easybuy (SK503/SK505) 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.

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

Warranty Information

Two year warranty on all kits and components

Marks and Certifications

Factory certification | ISO 9001:2015; ISO 14001:2015

Available Daily Electrical Energy

Greenlight Planet
Sun King Home 400 Family

System Name	Available Daily Electrical Energy (Wh/day)
Sun King Home 400 Easybuy**	88

**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.