

Lighting Global Standardized Specifications Book

Manufacturer: Greenlight Planet

Component Family Name: Sun King Home 400 Family

**Date of Standardized
Specifications Book Expiration:** February 28, 2021

Verify Online: <http://www.lightingglobal.org/products/glp-home400fa>

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This Lighting Global 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 latest version of the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocol for Solar Home System Kits, as applicable. 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: 2018

Revision: 2020.08

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 (mAh)	Measured Battery Capacity (mAh)
2.55 Ah NMC Battery	Lithium-ion	11.1	2550	2.6
5.1 Ah NMC Battery	Lithium-ion	11.1	5100	not tested
12.5 Ah NMC battery (daily discharge limited to 90 Wh)	Lithium-ion	11.1	12500	12500 (daily discharge limited to 86 Wh)
12.5 Ah NMC battery (daily discharge limited to 120 Wh)	Lithium-ion	11.1	12500	12500 (daily discharge limit not tested)
torch battery/ SK781	Lithium-ion	3.7	2.55	2.6

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	Normal	Low	High	Normal	Low	High	Normal	Low
overhead light/ SK409	200	120	40	230	140	51	130	140	140
tubelight/ SK706	400	200	100	370	--	--	160	--	--
motion sensor/ SK703*	100	--	--	95	--	--	130	--	--
lamp/ SK403	100	50	20	100	58	--	110	120	--
torch/ SK781	300	120	blink	270	--	--	80	--	--

*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 (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
19" LED TV/ SK-733	DVB-T2 LED TV	8	7.8	--	--
24" LED TV/ SK-735	DVB-T2/S2 LED TV	--	6.9	--	--
32" LED TV/ SK-737	DVB-T2/S2 LED TV	--	7.3	--	--

radio/ SK710	portable radio with 3.7 V Li-ion battery	--	0.35	1000	1000
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NOTICE: As indicated, not all components listed on the previous page were tested according to the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocols for Solar Home System Kits. 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).

List of Covered Systems

Greenlight Planet

Sun King Home 400 Family

System Name	Number of each component included in each system																
	200 lm overhead lamp SK409	400 lm tubelight SK706	motion sensor lamp SK703	radio SK781	torch SK781	lamp SK403	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	STB Connector	19" TV SK733	24" TV SK735	32" TV SK737
Sun King Home 400 (SK501)	2	2	1						1			1			1		
Sun King Home 400 Easybuy (w/Angaza) (SK503/SK505)**	2	2	1						1			1			1		
Sun King Home 400 EB Keypad w/ Paygee (SK513)	2	2	1						1			1			1		
Sun King Home 400 EB GSM w/ Paygee (SK515)	2	2	1						1			1			1		
Sun King Home 400 mini (SK501-C01000)		1							1			1			1		
SK505-001000		1							1			1			1		
Sun King Home 400 mini Easybuy (SK505-C01000)		1							1			1			1		
SK505-D01000		1							1			1				1	
SK505-E01000		1							1			1					1
Sun King Home 120 GSM (SK505-030000-HH)	3							1			1						
Sun King Home 60 GSM (SK505-000000-3-IH)	0					3	1				1						
Sun King Home 120 Plus GSM (SK505-040100-HH)	4		1					1			1						
Sun King Home 60 GSM + Radio (SK505-000010-3-IH)				1		3	1				1						
Sun King Home 120 GSM + Radio + Torch (SK505-030011-HH)	3			1	1			1			1						
Sun King Home 600 (SK506)	2	2	1							1			1	1			
Sun King Home 600 GSM (SK508)	2	2	1							1			1	1			

**Tested as full systems. Individual SSS available on Lighting Global website.

The SKUs in the table are interpreted as follows. In SK50xx[-XXXXXX]-[XXXXXX]-[XX]:
The default models are listed as SK 501, SK503, SK505, SK506, SK508, SK513, and SK515.

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 SK409 200 lm Overhead Light.

Digit3 - the qty of SK706 400 lm Tubelight

Digit4 - the qty of SK703 Motion Sensor Lamp

Digit5 - the qty of the SK710 Radio

Digit6 - the qty of SK781 Torch

Digit7 - the qty of SK403 100 lm Lamp

Digits8 -12 - reserved for future components

Digit13 - the type of battery: B - 12.75Ah; H - 5.1Ah; I - 2.55Ah

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

Models with prefixes of SK503, SK505, SK506, SK508, SK513, and SK515 are all PAYG models.

Models with prefix) of SK501 are CASH models.

NOTICE:

Only the Sun King Home 400 Easybuy (SK503/SK505) was fully tested as a system according to the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocol for Solar Home System Kits, as applicable. Individual Standardized Specifications Sheets (SSS) that report system-level performance is available for the Sun King Home 400 Easybuy (SK503/SK505) at www.lightingglobal.org/products. 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