

Lighting Global Standardized Specifications Book

Manufacturer: OffgridSun

Component Family Name: Energy Station Family

**Date of Standardized
Specifications Book Expiration:** August 31, 2019

Verify Online: <http://www.lightingglobal.org/products/os-esfamily>

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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: 2017

Revision: 2019.01

Component-Level Standardized Specifications Sheet

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Energy Station Family

Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Main Box	4500	4400

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
10 W PV module	10	11
8 W PV module	8	8
5 W PV module	5	4.8

Light Sources

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	NO	NO	NO
1 W lamp	107	103	101
2 W lamp	--	196	121
Torch (front lamp)	--	57	120

Appliances

Name / Model Number	Description	Rated Power (W)	Measured Power (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Torch (front lamp on)	Torch with 0.2 W/ 5V PV module	--	0.47	250	330
Radio	Portable radio with 3.7 V Li-Ion battery	3	0.45	1200	1200

NOTICE: As indicated, not all components listed on this 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

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Energy Station Family

System Name	Number of each component included in each system							
	Main Box with 4400 mAh battery	1 W Lamp	2 W lamp	5 W PV Module	8 W PV Module	10 W PV Module	Torch	Radio
Energy Station Basic **	1	3		1				
Energy Station Plus **	1	3			1			
Energy Station Premium	1	1	2			1	0-1	0-1
Energy Station Basic with Torch and/or Radio	1	3		1			0-1	0-1
Energy Station Plus with Torch and/or Radio	1	3			1		0-1	0-1

**Tested as full systems without a torch or radio. Individual SSS available on Lighting Global website.

NOTICE:

Only the Energy Station Basic and Energy Station Plus were fully tested as systems 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 are available for the Energy Station Basic and the Energy Station Plus 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

A 1-year warranty covering manufacturing defects.

Marks and Certifications

Factory certification	ISO 9001:2015
Other certification	CE