

Lighting Global Standardized Specifications Book

Manufacturer: d.light design

Component Family Name: S50X Family

**Date of Standardized
Specifications Book Expiration:** November 30, 2019

Verify Online: <http://www.lightingglobal.org/products/dl-S50XFamily>

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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: 2018.03

Component-Level Standardized Specifications Sheet

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S50X Family

Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
2400 mAh battery (NMC)	2400	2500
3200 mAh battery (LFP)	3200	3200
3200 mAh battery and modified resistor (LFP)	3200	not tested

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
2.5 W PV module	2.5	2.5
4 W PV Module	4	not tested
5 W PV Module	5	5.4

Light Sources

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)				Measured Lamp Efficacy (lm/W)			
	Brightest	Bright	Medium	Low	Brightest	Bright	Medium	Low	Brightest	Bright	Medium	Low
Main Lamp (5800 K)	240	120	70	8	230	130	--	--	113	128	--	--
Main Lamp (4000 K)	240	120	70	8	230	130	--	--	113	128	--	--

Appliances

Name/ Model Number	Description	Rated Power (W)	Measured Power (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Radio (SR10 and SR20)	portable radio with internal battery; charges via USB	--	0.3	1000	1000

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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System Name	Number of each component included in each system								
	main lamp (5800 K)	main lamp (4000K)	Control Unit (2400 mAh NMC battery)	Control Unit (3200 mAh LFP battery)	Control Unit (3200 mAh LFP battery and modified resistor)	2.5 W PV Module	4 W PV Module	5.4 W PV Module	Radio (SR20)
S500*	1			1		1			
S501		1		1		1			
S501B	1		1			1			
S502	1				1			1	
S503	1				1		1		
S500B	1		1			1			
S500R	1		1			1			1
S510	1			1		1			

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

NOTICE:

Only the S500 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 are available for the S500 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

2.5-year warranty for the S502 and S503; 2-year warranty for the S500, S501 and S501B; 1-year warranty for the S510, S500B, and S500R. The warranty covers all components in the kit.

Marks and Certifications

Factory certification

ISO 9001:2008, ISO 14001:2004