

# Lighting Global Standardized Specifications Book

**Manufacturer:** d.light design

**Component Family Name:** SHS Family

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

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

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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 Lighting Global Quality Assurance Protocol for Solar Home System Kits. 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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SHS Family

## Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
6 Ah LFP battery (four 6 Ah cells)	6000 mAh	6000 mAh
9 Ah LFP battery	9000 mAh	not tested
9.6 Ah NCM battery	9600 mAh	10000 mAh
12 Ah LFP battery	12000 mAh	12400 mAh

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
20 W PV module	20	21
25 W PV Module	25	not tested
30 W PV module	30	29
40 W PV module	40	38
50 W PV module	50	50

## 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
Hanging Lamps	200	--	--	200	120	--	110	110	--
Tube Light (600 lm)	600	--	--	630	390	--	110	167	--
Tube Light (400 lm)	400	--	--	410	250	--	110	110	--
Torch	75	--	--	98	--	--	90	--	--

## 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
Television (SV19, SV19-p, SV19S, SV19S-P)	19" LED TV	--	9.5	--	--
Television (SV24S, SV24S-P)	24" LED TV	--	9.6	--	--

**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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SHS Family

System Name	Number of each component included in each system															
	hanging lamp	tube light (400 lm)	tube light (600 lm)	6Ah LFP battery	9 Ah LFP battery	9.6 Ah NCM	12AH LFP battery	20 W PV module	25 W PV Module	29 W PV Module	38 W PV Module	50 W PV Module	19" TV	24" TV	Radio	Torch
<b>Mid SHS Family</b>																
<b>X731</b>	3	1		1				1							1	
<b>X732 (base unit with data logger)</b>	3	1		1					1						1	
<b>X740*</b>	3	1		1						1						
<b>X730</b>	2	1		1						1					0-1	0-1
<b>X850*</b>	4	1		1							1				1	1
<b>X850V</b>	4	1		1									1		1	1
<b>X1000</b>	4		1		1						1				1	1
<b>X1000V</b>	4		1		1						1			1	1	1
<b>X1200</b>	3	1					1					1			0-1	0-1
<b>X1200V</b>	2-6	0-3					1					1	1		0-1	0-1
<b>Big Mac SHS Family</b>																
<b>X1100</b>	4		1			1					1				1	1
<b>X1100V</b>	4		1			1					1			1	1	1
<b>X1101V</b>	4		1			1					1		1		0-1	0-1
<b>X1001</b>	4	1				1					1				0-1	0-1
<b>X1001V</b>	4	1				1					1			1	0-1	0-1
<b>X1002V</b>	4	1				1					1		1		0-1	0-1
<b>X900</b>	1-4	1				1				1					0-1	0-1
<b>X900V</b>	1-4	1				1				1			1		0-1	0-1
<b>X950</b>	1-4	0-1				1			1						0-1	0-1
<b>X950V</b>	1-4	0-1				1		1							0-1	0-1

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

Note: The X850 and X740 may have a plastic or metal housing.

**NOTICE:**

Only the X850 and X740 were fully tested as systems according to the Lighting Global Quality Assurance Protocol for Solar Home System Kits. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the X850 and the X740 at [www.lightingglobal.org/products](http://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 with the exception of the TV remote, solar radio, and solar torch.

## Marks and Certifications

Factory certification

ISO 9001:2008, ISO 14001:2004