

Lighting Global Standardized Specifications Book

Manufacturer: d.light design

Component Family Name: SHS Family

Date of Standardized Specifications Book Expiration: August 31, 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 or IEC 62257-9-5 Ed 4. 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)
5.6 Ah LFP battery	5600	5600
6 Ah LFP battery (four 6 Ah cells)	6000	6000
9 Ah LFP battery	9000	not tested
9.6 Ah NCM battery	9600	10000
12 Ah LFP battery	12000	12400

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
60 W PV module	60	not tested
80 W PV Module	80	80.4

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 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

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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)	5.6 Ah LFP battery	6Ah LFP battery	9 Ah LFP battery	9.6 Ah NCM battery	12 Ah LFP battery	20 W PV module	25 W PV Module	30 W PV Module	40 W PV Module	50 W PV Module	60 W PV Module	80 W PV Module	19" TV	24" TV	Radio	Torch
X732 (base unit with data logger)	3	1			1					1								1	
X450	2			1						1									
X500	2	1		1						1									
X740*	3	1			1						1								
X850*	4	1			1							1						1	1
X850V	4	1			1										1			1	1
X900	1-4	1					1				1							0-1	0-1
X900V	1-4	1					1				1				1			0-1	0-1
X1000	4		1			1						1						1	1
X1000V	4		1			1						1				1		1	1
X1100	4		1				1					1						0-1	0-1
X1200	2					1						1							2

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

Note: The X850 and X740 may have a plastic or metal housing. The 9.6 Ah battery can be comprised of two 5 Ah batteries or four 2.5 Ah batteries in series.

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. 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
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