

VeraSol

Standardized Specifications Book

Manufacturer: BioLite Inc.

Component Family Name: SH625 family

Date of Standardized Specifications Book Expiration: December 31, 2024

Verify Online: <https://data.verasol.org/products/sek/sh625family>

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This VeraSol 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 Edition 4 of IEC 62257-9-5. 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 IEC TS 62257-9-8.

Quality Standards Framework Version: 2023

Revision: 2023.08

Component-Level Standardized Specifications Sheet

BioLite Inc.
SH625 family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
3.8 Ah battery	Lithium iron phosphate	6.4	3.8	3.9
7.6 Ah battery	Lithium iron phosphate	6.4	7.6	8.1

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
6 W PV module	6	6.4
10 W PV module	10	not tested
15 W PV module	15	14

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
130lm Hanging Lamp	130	--	--	130	--	--	160	--	--
130lm Motion Lamp	130	--	--	130	--	--	150	--	--
200lm Hanging Lamp	200	--	--	200	--	--	150	--	--
200lm Motion Lamp	200	--	--	200	--	--	150	--	--
Integrated light	80	--	--	82	--	--	140	--	--

*Light points and appliances may perform differently when used with different systems.

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in Edition 4 of IEC 62257-9-5. However, based on the satisfactory performance of the tested components in the family, the components that were not tested are regarded to have passed IEC TS 62257-9-8:2020. 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									
	130 lm hanging light	130 lm motion light	200 lm hanging light	200 lm motion light	Integrated light	6 W PV	10 W PV	15 W PV	3.8 Ah battery	7.6 Ah battery
SH 625 **	2	1	--	--	1	1	--	--	1	--
SH 1025	2	1	--	--	1	--	1	--	1	--
SH1550	--	--	2	1	1	--	--	1	--	1

**Tested as full systems. Individual SSS available on VeraSol website.

NOTICE:

Only the kits denoted with ** were tested as full systems according to Edition 4 of IEC 62257-9-5 and passed IEC 62257-9-8 standards. An Individual Standardized Specification Sheet (SSS) that reports system-level performance is available for these systems at VeraSol.org. 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 IEC 62257-9-8.

Unless otherwise noted, the following information applies to all listed systems and components:

Warranty Information

A 2-year warranty covers manufacturing defects for the entire product.

Available Daily Electrical Energy and Port Information

BioLite Inc.
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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
SH 625**	21	yes
SH 1025	22	yes
SH1550	46	yes

**Tested as full systems. Individual SSS available on VeraSol website.

NOTICE:

The available daily electrical energy (Wh/day) is calculated for fully tested systems following the energy service calculations as described in IEC/TS 62257-9-5 Ed. 4. For products in a family that are not tested as a full system, estimations of available daily electrical energy (Wh/day) are calculated according to an alternative method using data from the test reports of fully-tested products and components.