VeraSol
Standardized Specifications Book

Manufacturer: Villageboom GmbH

Component Family Name: Villageboom Family

Date of Standardized Specifications Book Expiration: December 31, 2022

Verify Online: https://data.verasol.org/products/sek/vb-family

Contact Information: ricke@villageboom.com

Website: www.villageboom.com

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 the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8.

Revision: 2022.01

Component-Level Standardized Specifications Sheet
Villageboom GmbH
Villageboom Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
5200 mAh main unit (VB-014) battery	Lithium-ion	3.7	5.20	5.00
Solar Bulb 5200 mAh main unit (VB-015) battery	Lithium-ion	3.7	5.20	5.00

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
5 W PV Module	5.5	5.3
10 W PV Module	10	9.4

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	On	High	Medium	On	High	Medium	On	High	Medium
Side lamp within Villageboom High Power VB-014	--	270	140	--	290	not tested	--	109	not tested
Torch within Villageboom High Power VB-014	100	--	--	82	--	--	71	--	--
Villageboom Solar Bulb VB-015	250	--	--	270	--	--	89	--	--

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 the applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8. 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).
*Light points and appliances may perform differently when used with different systems.

List of Covered Systems
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Villageboom Family

System Name	Number of each component included in each system			
	5 W PV Module	**10 W PV Module**	**5200 mAh Main Unit with Integrated Light (VB-014)**	**Solar Bulb with Integrated 5200 mAh Battery (VB-015)**
1 Light System (VB-5W-1L)**	1	-	1	-
1 Light System XXL (VB-10W-1L)	-	1	1	-
2 Light System (VB-SHS-15W-2L)	1	1	1	1
3 Light System (VB-SHS-20W-3L)	-	2	1	2

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

NOTICE:

Only the Villageboom High Power + (VB-5W-1L) was fully tested as a system according to Edition 4 of IEC 62257-9-5. A Standardized Specifications Sheet (SSS) that report system-level performance is available for the Villageboom High Power + (VB-5W-1L) at https.data.verasol.org/products/sek/vb-vbh. 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.

Available Daily Electrical Energy and Port Information

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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
1 Light System (VB-5W-1L)**	10	yes
1 Light System XXL (VB-10W-1L)	11	yes
2 Light System (VB-SHS-15W-2L)	26	yes
3 Light System (VB-SHS-20W-3L)	42	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. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.