

VeraSol

Standardized Specifications Book

Company Name: Lumos Global B.V.

Brand Name: Lumos

Component Family Name: Lumos L1 Family

Family Expiration Date: June 30, 2026

Verify Online: <https://data.verasol.org/products/sek/lumos-l1>

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Co-brand of: Beebeesolar S1 Plus Family
(BeeBeeJump Technology Co., Ltd)



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: 2025

Revision: 2025.11

Component-Level Standardized Specifications Sheet

Lumos Global B.V.
Lumos L1 Family

Starred (⌘) components below are co-branded by Lumos Global B.V.

Batteries / Control Boxes				
Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Battery A⌘	Lithium iron phosphate	12.8	25	27
Battery B	Lithium iron phosphate	12.8	27	25

PV Modules		
Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
mono-si 80 W PV module	80	81
mono-si 100 W PV module	100	Not tested
mono-si 120 W PV module	120	Not tested
mono-si 160 W PV module⌘	160	145
mono-si 200 W PV module	200	195

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
9.5 W LED bulb - 2 Setting⌘	860	--	--	850	--	310	92	--	120
9.5 W LED bulb - 3 Setting	860	--	--	970	570	--	100	130	--

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

Lumos Global B.V.

Lumos L1 Family

Number of each component included in each system									
Originally tested system name included in the Beebeesolar S1 Plus Family	Battery A	Battery B	9.5 W LED bulb - 2 Setting	9.5 W LED bulb - 3 Setting	80 W PV module	100W PV module	120W PV module	160 W PV module	200 W PV module
S1 Plus A20-160 **	1	--	2	--	--	--	--	1	--
Number of each component included in each system									
Co-branded system name	Battery A	Battery B	9.5 W LED bulb - 2 Setting	9.5 W LED bulb - 3 Setting	80 W PV module	100W PV module	120W PV module	160 W PV module	200 W PV module
S1 Plus A40-160 / Lumos L1	1	--	4	--	--	--	--	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 TS 62257-9-8:2020..

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

Warranty Information
A 2-year warranty covering manufacturing defects in the system and accessories

Available Daily Electrical Energy and Port Information

Lumos Global B.V.

Lumos L1 Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
S1 Plus A20-160**	400	yes
S1 Plus A20-1601	400	yes
S1 Plus A40-160 / Lumos L1	400	yes

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

° Kit has PAYG function.

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 Edition 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.