

VeraSol

Standardized Specifications Book

Manufacturer: Lumos

Component Family Name: Solar Home System

Date of Standardized Specifications Book Expiration: April 30, 2023

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

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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 the applicable Lighting Global Quality Standards.

Quality Standards Framework Version: 2020

Revision: 2020.10

Component-Level Standardized Specifications Sheet

Lumos Solar Home System

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
Lumos Box with 300 Wh battery A ^a	Lithium Iron Phosphate	12.8	25	27
Lumos Box with 300 Wh battery B ^a	Lithium Iron Phosphate	12.8	25	25
Lumos Box with 200 Wh battery	Lithium Iron Phosphate	12.8	16	17

^a Two 300 Wh batteries are available

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
80 W PV Module	83	77
120 W PV Module	120	Not Tested
160 W PV Module	160	148

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Medium	High	Medium	High	Medium
LED Bulb	520	--	568	331	82	105

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. 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

Lumos Solar Home System

System Name	Number of each component included in each system					
	LED Bulbs	Lumos Box with 300 Wh battery	Lumos Box with 200 Wh battery	80W PV Module	120W PV Module	160W PV Module
Eco	2-4		1	1		
Prime with 2 80 W panels**	2	1		2		
Prime with 2 80 W panels	2-4	1		2		
Prime Boost	2-4	1			1	
Prime with 160W panel	2-4	1				1

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

NOTICE:

Only the Prime with 2 80W panels was fully tested as system according to Edition 4 of IEC 62257-9-5. An individual Standardized Specifications Sheet (SSS) that reports system-level performance is available for the Prime with 2 80W panels at <https://data.verasol.org/products/sek/>. 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

Product is offered with a rental agreement only. Warranty coverage varies by component, with all components covered for a minimum of 2 years.