

VeraSol

Standardized Specifications Book

Company Name: Omnivoltaic Energy Solutions Co. Ltd

Brand Name: Omnivoltaic

Component Family Name: LUMN HOME Family

Family Expiration Date July 31, 2025

Verify Online: <https://data.verasol.org/products/sek/omni-homefam>

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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: 2025.04

Component-Level Standardized Specifications Sheet

Omnivoltaic Energy Solutions Co. Ltd

LUMN HOME Family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
SHS 20	Lithium iron phosphate	3.3	6	6
SHS 40	Lithium iron phosphate	3.3	12	12
Torch battery	Lithium iron phosphate	3.2	0.63	0.63

PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
6 W PV module	6	6
12 W PV module	12	12

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	high	high	high
LED lamp	210	190	190
Security Lamp	200	190	170
LED tubelight	410	350	170
Torch- Side Light	40	46	140
Torch-Front Light	33	Not Tested	Not Tested

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Solar Powered Radio	Portable Radio with 3.7 V internal battery, charges via USB	3	0.39	1	1.1

* 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).

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

NOTICE:

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

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for appliances and USB charging cable

Available Daily Electrical Energy and Port Information

Omnivoltaic Energy Solutions Co. Ltd
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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
SHS20_06W_L22	15	yes
SHS40_12W_T444	33	yes
SHS40_12W_L222_S2	33	yes
SHS40_12W_T4_L2_S2**	33	yes
SHS40_12W_L22_S2 / MOON Energy SHS40_12W_L22_S2***	33	yes

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

*** The MOON Energy (SHS40_12W_L22_S2 is co-branded by Moon Community and is equivalent to the Omnivoltaic version. For more details, please visit the product's listing at <https://data.verasol.org/products/sek/moon-energy>

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.