

VeraSol

Standardized Specifications Book

Manufacturer: Omnivoltaic Energy Solutions Co., Ltd

Component Family Name: ovCamp

Date of Standardized Specifications Book Expiration: November 30, 2024

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

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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 met the requirements in IEC 62257-9-8.

Revision: 2023.09

Component-Level Standardized Specifications Sheet

Omnivoltaic Energy Solutions Co., Ltd

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Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
6 Ah battery	Lithium Iron Phosphate	12.8	6	6.2
12 Ah battery	Lithium Iron Phosphate	12.8	12	Not tested
18 Ah battery	Lithium Iron Phosphate	12.8	18	Not tested
24 Ah battery	Lithium Iron Phosphate	12.8	24	25
Torch battery	Lithium Iron Phosphate	3.2	0.63	0.63

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
20 W PV module	20	18
30 W PV Module	30	Not tested
50 W PV module	50	46
75 W PV module	75	Not tested
80 W PV module	80	Not tested
110 W PV module	110	94

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
1 W bulb	100	120**	110
2 W bulb	200	210**	110
4 W bulb	390	410**	100
L190	190	190	140
Security lamp***	200	190	170
LED tube***	410	350	170
Torch	Side Light (High)	46	140
	Front Light	33	not tested

** Values from testing do not include lampshade use.

*** Values for these components are from the LUMN HOME Family QTM tests.

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
Solar Powered Radio (RD/SPRD-A)	Portable radio with 3.7 V internal battery, charges via USB	3	0.39*	1.0	1.1

24" TV	24", 12 V television	10	10	--	--
32" TV	32", 12 V television	15	Not tested	--	--
40" TV	40", 12 V television	22	13	--	--

* The power test is conducted according to IEC 62087-6:2015 (test procedure) and IEC 62087-1:2015 (test equipment requirement)

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 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.

Warranty Information

A two-year warranty covers the battery, solar panel, and LED bulbs. A one-year warranty covers the TV and radio.

Available Daily Electrical Energy and Port Information

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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
HS2-72_LB1122_RD_KEYP	88	yes
HS2-144_LB2222_KEYP	117	yes
HS2-230_LB124_KEYP	248	yes
HS2-307_LB124**	310	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.