

VeraSol

Standardized Specifications Book

Company Name: Sinoware Technology Co., Ltd.

Brand Name: Sinoware

Component Family Name: Sinoware Sun Ace II Family

Family Expiration Date: September 30, 2028

Verify Online: <https://data.verasol.org/products/sek/sino-safamily>

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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 5 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

Sinoware Technology Co., Ltd.

Sinoware Sun Ace II Family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Sun Ace II main lamp battery	Lithium iron phosphate	3.2	3600	3700
Sun Ace AUX Lamp B battery	Lithium iron phosphate	3.2	6000	5800
Sun Ace AUX Lamp C battery	Lithium iron phosphate	3.2	1800	1800
Torch battery	Lithium iron phosphate	3.2	500	530

PV Modules	
1	1000
2	1000
3	1000
4	1000
5	1000
6	1000
7	1000
8	1000
9	1000
10	1000
11	1000
12	1000
13	1000
14	1000
15	1000
16	1000
17	1000
18	1000
19	1000
20	1000
21	1000
22	1000
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87	1000
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91	1000
92	1000
93	1000
94	1000
95	1000
96	1000
97	1000
98	1000
99	1000
100	1000

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
3.3 W Polycrystalline PV module	3.3	3.3
5 W Polycrystalline PV module	5	Not tested
10 W Polycrystalline PV module	10	Not tested
15 W Polycrystalline PV module	15	14

Light Sources^

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)				Measured Lamp Efficacy (lm/W)			
	super	normal	night light	high	super	normal	night light	high	super	normal	night light	high
Sun Ace II main unit	350	170	35	85	300	not tested	not tested	not tested	120	not tested	not tested	not tested
Sun Ace AUX Lamp B	500	240	30	110	450	not tested	not tested	not tested	140	not tested	not tested	not tested
Sun Ace AUX Lamp C	200	95	20	45	170	not tested	not tested	not tested	130	not tested	not tested	not tested
Torch	-	-	-	20	-	-	-	18	-	-	-	98

Appliances^

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Torch/Remote	18 lm torch (LiFePO4 battery: 0.53 Ah, 3.2 V)	0.188	0.18	500	530

^a 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 5 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 62257-9-8:2025. 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).

Sinoware Sun Ace II Family

A 2-year warranty covering manufacturing defects in the system.

Available Daily Electrical Energy and Port Information

Sinoware Technology Co., Ltd.

Sinoware Sun Ace II Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Sun Ace II**	9.9	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 Edition 5. 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.