

VeraSol

Standardized Specifications Book

Manufacturer: Fosera

Component Family Name: Ignite Family

Date of Standardized Specifications Book Expiration: June 30, 2025

Verify Online: <https://data.verasol.org/products/sek/fs-igfamily>

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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: 2023.11

Component-Level Standardized Specifications Sheet

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Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
3.8 Ah battery	Lithium iron phosphate	12.8	3.8	4
7.6 Ah battery	Lithium iron phosphate	12.8	7.6	Not tested
11.4 Ah battery	Lithium iron phosphate	12.8	11.4	12
15.2 Ah battery	Lithium iron phosphate	12.8	15.2	Not tested
19 Ah battery	Lithium iron phosphate	12.8	19	19

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
15 W PV module	15	15
30 W PV module	30	Not tested
50 W PV module	50	51
75 W PV module	75	Not tested
150 W PV module	150	140

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	High	Normal	Eco	High	Normal	Eco	High	Normal	Eco
Lamp 100	--	100	--	--	110	--	--	140	--
Lamp 200	--	200	--	Not Tested			Not Tested		
Lamp 400	--	400	--	--	420	68	--	120	150
Lamp mini 100	100	--	--	100	--	--	140	--	--
Tubelight	--	400	--	--	390	--	--	100	--

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
23.6" TV	23.6" diagonal	9.3	9.3	n/a	n/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 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

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System Name	Number of each component included in each system															
	Main unit with 3.8 Ah battery	Main unit with 7.6 Ah battery	Main unit with 11.4 Ah battery	Main unit with 15.2 Ah battery	Main unit with 19 Ah battery	15 W PV module	30 W PV module	50 W PV module	75 W PV module	150 W PV module	Lamp 100	Lamp 200	Lamp 400	Lamp mini 100	Tubelight	23.6" TV
Ignite 50 - Multi	1	--	--	--	--	0-1	0-1	--	--	--	0-6	0-6	0-6	0-6	0-6	--
Ignite 100	--	1	--	--	--	--	1	--	--	--	--	--	--	4	--	1
Ignite 100 - Multi	--	1	--	--	--	--	0-1	0-1	--	--	0-6	0-6	0-6	0-6	0-6	0-1
Ignite 150	--	--	1	--	--	--	--	1	--	--	--	2	--	--	4	1
Ignite 150 - Multi	--	--	1	--	--	--	--	0-1	0-1	--	0-6	0-6	0-6	0-6	0-6	0-1
Ignite 200 - Multi	--	--	--	1	--	--	--	0-1	0-1	0-1	0-6	0-6	0-6	0-6	0-6	0-1
Ignite 250 - lamp 400 **	--	--	--	--	1	--	--	--	--	1	--	--	4	--	--	1
Ignite 250 - Multi	--	--	--	--	1	--	--	--	0-1	0-1	0-6	0-6	0-6	0-6	0-6	0-1

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

Systems labeled as "multi" may have different combinations of components, which will be stated on the data sheet and packaging for each kit.

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 62257-9-8.

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

Warranty Information

Three year warranty covering manufacturing defects

Available Daily Electrical Energy and Port Information

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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Ignite 100	100	yes
Ignite 150	160	yes
Ignite 250 - lamp 400**	320	yes

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

Systems labeled as "multi" may have different combinations of components, which will be stated on the data sheet and packaging for each kit.

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.