

# VeraSol Standardized Specifications Book

**Manufacturer:** Fosera Group

**Component Family Name:** Ignite Family

**Date of Standardized Specifications Book Expiration:** July 31, 2022

**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 the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8.

**Quality Standards Framework Version:** 2021

**Revision:** 2021.08

# Component-Level Standardized Specifications Sheet

Fosera Group

Ignite Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
3.8 Ah battery	Lithium iron phosphate	3.2	3.80	4.0
7.6 Ah battery	Lithium iron phosphate	3.2	7.60	not tested
11.4 Ah battery	Lithium iron phosphate	3.2	11.4	12
15.2 Ah battery	Lithium iron phosphate	3.2	15.2	not tested
19 Ah battery	Lithium iron phosphate	3.2	19.0	19

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC
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	Medium	Low	High	Medium	Low	High	Medium	Low
Lamp 12V 100	100	--	--	110	--	49	140	--	140
Lamp 12V 200	200	--	--	220	--	42	140	--	110
Lamp 12V 400	400	--	--	420	--	--	120	--	--
Lamp mini 12V 100	100	--	--	100	--	--	140	--	--
Tubelight 12V 400	400	--	--	390	--	41	100	--	100

## Appliances\*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
23.6" TV 240	23.6" diagonal	12	9.1	n/a	n/a

**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 or the 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.

# List of Covered Systems

Fosera Group  
Ignite Family

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 12V 100	Tubeilight 12V 400	23.6" TV 240
<b>Ignite 50 - Multi</b>	1					0-1	0-1				0-6	0-6	0-6	0-6	0-6	
<b>Ignite 100</b>		1					1							4		1
<b>Ignite 100 - Multi</b>		1					0-1	0-1			0-6	0-6	0-6	0-6	0-6	0-1
<b>Ignite 150</b>			1					1				2			4	1
<b>Ignite 150 - Multi</b>			1					0-1	0-1		0-6	0-6	0-6	0-6	0-6	0-1
<b>Ignite 200 - Multi</b>				1				0-1	0-1	0-1	0-6	0-6	0-6	0-6	0-6	0-1
<b>Ignite 250**</b>					1					1			4			1
<b>Ignite 250 - Multi</b>					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.

## **NOTICE:**

Only the Ignite 250 was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Ignite 250 at <https://data.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 the applicable Lighting Global Quality Standards or the requirements in 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

### **Marks and Certifications**

Factory certification | ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018

# Available Daily Electrical Energy and Port Information

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Ignite Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
<b>Ignite 100</b>	100	yes
<b>Ignite 150</b>	160	yes
<b>Ignite 250**</b>	320	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.