VeraSol
Standardized Specifications Book

Manufacturer: Engie Mobisol Gmbh

Component Family Name: Fenix Power Family

Date of Standardized Specifications Book Expiration: March 31, 2023

Verify Online: https://data.verasol.org/products/sek/emb-mspf

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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.

Revision: 2022.06

Component-Level Standardized Specifications Sheet

Engie Mobisol Gmbh

Fenix Power Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
Volta 25 Wh Battery	Lithium ion	3.6	7900	7600
Vega 25 Wh Battery*	Lithium ion	3.6	7900	7600
Lyra 108 Wh Battery	Lithium ion	14.4	7800	7900
Torch (A0001) battery	Lithium ion	3.6	2600	2560

*The Vega 25 main unit contains the same battery as the Volta main unit and the same ports regulation as the Lyra main unit

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
10 W PV Module	10	10
40 W PV Module*	40	42

*The 40 W PV module is comprised of two 20 W PV modules connected in parallel.

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
LED light	215	--	190	99	110	90
Torch (A0001)	165	80	180	--	140	140

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
24" TV	24" diagonal TV	11	8.5	--	--
32" TV	32" diagonal TV	18	14	--	--
Radio (A0002)	Portable radio with 3.6 V battery	--	0.36	1.1	1.1

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 met 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

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Fenix Power Family

System Name	Number of each component included in each system									
	LED Light	10 W PV Module	40 W PV Power (2 x 20 W)	3.6 V 25 Wh Battery with Volta Power System	14.4 V 108 Wh Battery with Lyra Power System	3.6 V 25 Wh Battery with Vega Power System	Torch (A0001)	Radio (A0002)	24" TV	32" TV
Fenix Power 2*	2	1		1						
Fenix Power 3	3	1		1						
Fenix Power Boost 2	2	1				1	1			
Fenix Power Boost 3	3	1				1		1		
Fenix Power Pro 2	2		1		1		1	1		
Fenix Power Pro 24" TV	2		1		1		1		1	
Fenix Power Pro 32" TV	2		1		1					1

**Tested as full system. Individual SSS available on VeraSol website. This product was tested as the Fenix Power 2.

NOTICE:

Only the Fenix Power 2 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 Fenix Power 2 at https.data.verasol.org/products/sek/. 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 met the requirements in IEC 62257-9-8.

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

Warranty Information

A 1-year warranty covers the Fenix Power 2 kit. A 3-year warranty covers the power system and solar panels in family; A 2-year warranty covers remaining appliances.

Available Daily Electrical Energy and Port Information

Engie Mobisol Gmbh

Fenix Power Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Fenix Power 2 *	22	yes
Fenix Power 3	22	yes
Fenix Power Boost 2	22	yes
Fenix Power Boost 3	22	yes
Fenix,Power Pro 2	115	yes
Fenix Power Pro 24" TV	115	yes
Fenix Power Pro 32" TV	115	yes

****Tested as full system. 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.