

# VeraSol

## Standardized Specifications Book

**Manufacturer:** Engie Mobisol GmbH

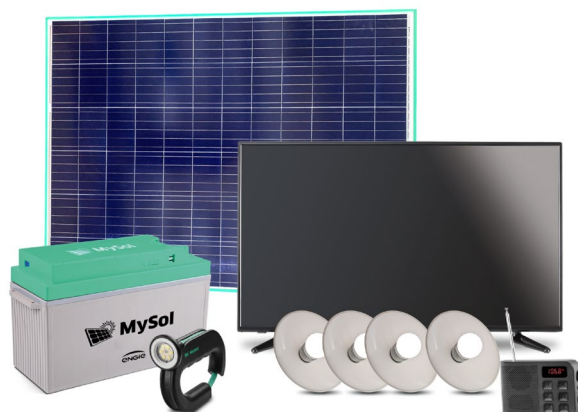
**Component Family Name:** MySol SHS Family

**Date of Standardized Specifications Book Expiration:** July 31, 2024

**Verify Online:** <https://data.verasol.org/products/sek/ms-shsfamily>

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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 meet the requirements in IEC 62257-9-8.

**Revision:** 2024.04

# Component-Level Standardized Specifications Sheet

Engie Mobisol GmbH

MySol SHS Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
35 Ah Solar Battery and Controller	Sealed lead-acid	12	35	35
50 Ah Solar Battery and Controller	Sealed lead-acid	12	50	54
100 Ah Solar Battery and Controller	Sealed lead-acid	12	100	130
Torch battery	Lithium-ion	3.6	2.6	2.6

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
80 Wp Solar Panel	80	76
100 Wp Solar Panel	100	Not tested
120 Wp Solar Panel	120	Not tested
200 Wp Solar Panel	200	200

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	On	High	On	High	On	High
2 W bulb	200	--	300	--	140	--
Torch (A0001)	--	170	--	180	--	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	8.3	--	--
32" TV	32" diagonal TV	18	14	--	--
43" TV	43" diagonal TV	30	16	--	--
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 passed 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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System Name	Number of each component included in each system												
	2 W bulb	Torch (A0001)	80 W PV	100 W PV	120 W PV	200 W PV	35 Ah battery	50 Ah battery	100 Ah battery	24" TV	32" TV	43" TV	Radio (A0002)
MySol 80W (35Ah)	3 - 12	1	1	--	--	--	1	--	--	--	--	--	1
MySol 80W TV 24" (35Ah)	4 - 12	1	1	--	--	--	1	--	--	1	--	--	1
MySol 80W TV 32" (35Ah)	4 - 12	1	1	--	--	--	1	--	--	--	1	--	1
MySol 120W (35Ah)	4 - 12	1	--	--	1	--	1	--	--	--	--	--	1
MySol 120W TV 24" (35Ah)	4 - 12	1	--	--	1	--	1	--	--	1	--	--	1
MySol 120W TV 32" (35Ah)	4 - 12	1	--	--	1	--	1	--	--	--	1	--	1
MySol 120W TV 43" (35Ah)	4 - 12	1	--	--	1	--	1	--	--	--	--	1	1
MySol 80W (50Ah)	3 - 12	1	1	--	--	--	--	1	--	--	--	--	1
MySol 80W TV 24" (50Ah)	4 - 12	1	1	--	--	--	--	1	--	1	--	--	1
MySol 100W (50Ah)	3 - 12	1	--	1	--	--	--	1	--	--	--	--	1
MySol 100W TV 24" (50Ah)	4 - 12	1	--	1	--	--	--	1	--	1	--	--	1
MySol 120W (50Ah)	3 - 12	--	--	--	1	--	--	1	--	--	--	--	1
MySol 120W TV 24" (50Ah)	4 - 12	--	--	--	1	--	--	1	--	1	--	--	1
MySol 120W TV 32" (50Ah)	4 - 12	--	--	--	1	--	--	1	--	--	1	--	1
MySol 120W TV 43" (100Ah)	4 - 12	--	--	--	1	--	--	--	1	--	--	1	--
MySol 200W (100Ah)	3 - 12	--	--	--	--	1	--	--	1	--	--	--	1
MySol 200W TV 24" (100Ah)	4 - 12	--	--	--	--	1	--	--	1	1	--	--	1
MySol 200W TV 32" (100Ah)	4 - 12	--	--	--	--	1	--	--	1	--	1	--	1
MySol 200W TV 43" (100Ah)	4 - 12	--	--	--	--	1	--	--	1	--	--	1	--
MySol 240W (100Ah)	3 - 12	--	--	--	2	--	--	--	1	--	--	--	1
MySol 240W TV 24" (100Ah)	4 - 12	--	--	--	2	--	--	--	1	1	--	--	1
MySol 240W TV 32" (100Ah)	4 - 12	--	--	--	2	--	--	--	1	--	1	--	1
MySol 240W TV 43" (100Ah)	4 - 12	--	--	--	2	--	--	--	1	--	--	1	--
MySol 200W TV 32" (100Ah) (Torch)**	4-12	1	--	--		1	--	--	1	--	1	--	1
MySol 200W TV 43" (100Ah) (Torch)	4-12	1	--	--		1	--	--	1	--	--	1	--
MySol 80W TV 32" (50Ah)	4-12	--	1	--	--	--	--	1	--	--	1	--	1
MySol 120W 43" (50Ah)	4-12	--	--	--	1	--	--	1	--	--	--	1	--

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

**NOTICE:**

Only the MySol 200W TV 32" (100Ah) (Torch) 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 MySol 200W TV 32" (100Ah) (Torch) 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 requirements in IEC 62257-9-8.

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

**Warranty Information**

A 3-year warranty covering manufacturing defects in the system and a 2-year warranty for the battery.

# Available Daily Electrical Energy and Port Information

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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
<b>MySol 200W TV 32" (100Ah) (Torch)**</b>	590	yes
<b>MySol 120W TV 32" (50 Ah)</b>	380	yes
<b>MySol 80W TV 32" (35 Ah)</b>	230	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.