VeraSol
Standardized Specifications Book

Manufacturer: Engie Mobisol GmbH

Component Family Name: Solar Television System Family

Date of Standardized Specifications Book Expiration: April 30, 2025

Verify Online: https://data.verasol.org/products/sek/mb-stsfamily

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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 requirements in IEC 62257-9-8.

Revision: 2023.04

Component-Level Standardized Specifications Sheet

Engie Mobisol GmbH

Solar Television System Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
24" TV with integrated 9.6 Ah battery	Lithium iron phosphate	12.8	9.6	10

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
50 W PV Module	50	51

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	High	High	High
Curie light	190	210	160

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
24" TV with integrated 9.6 Ah battery	24" TV with 12.8 V 9.6 Ah LiFePO4 battery	14	13	9.6	10

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 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

Engie Mobisol GmbH

Solar Television System Family

	Number of each component included in each system		
System Name	**Curie light**	**50 W PV module**	**24" TV with 9.6 Ah battery and remote**
Solar TV System 50 W-24"**	**2**	**1**	**1**
STS V1.B	**3-6**	**1**	**1**

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

NOTICE:

Only the Solar TV System 50 W TV-24, , and were fully tested as systems according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Solar TV System 50 W TV-24, the , and the 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 passed the applicable requirements in IEC 62257-9-8.

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

Warranty Information

2 year warranty covering manufacturing defects in the system. No warrranty for accessories such as phone charging cables.

Available Daily Electrical Energy and Port Information

Engie Mobisol GmbH

Solar Television System Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Solar TV System 50 W-24"**	165	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.