

# VeraSol

## Standardized Specifications Book

**Manufacturer:** StarTimes

**Component Family Name:** S130 Family

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

**Verify Online:** <https://data.verasol.org/products/sek/st-s130family>

**Contact Information:** wangliang@startimes.com.cn

**Website:** www.startimes.com.cn



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:** 2022.11

# Component-Level Standardized Specifications Sheet

StarTimes

S130 Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
S130 main unit	Lithium iron phosphate	12.8	10.8	11
S100 main unit	Lithium iron phosphate	12.8	7.0	6.9

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
50 W PV	50	50
30 W PV	30	29

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
1.1 W LED lamp	120	-	130	66	110	130

**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

StarTimes

S130 Family

System Name	Number of each component included in each system				
	1.1 W LED lights	50 W PV	30 W PV	S130 main unit	S100 main unit
<b>Solar Power System S130**</b>	4	1		1	
<b>Solar Power System S100</b>	4		1		1
<b>Solar Power System S100+</b>	4	1			1

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

## **NOTICE:**

Only the S130 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 S130 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 for the main unit and lamp, 5 year warranty for the PV, 1 year warranty for accessories.

# Available Daily Electrical Energy and Port Information

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S130 Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
<b>Solar Power System S130**</b>	170	yes
<b>Solar Power System S100</b>	100	yes
<b>Solar Power System S100+</b>	130	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.