

# VeraSol

## Standardized Specifications Book

**Company Name:** StarTimes Software Technology Co., Ltd

**Brand Name:** StarTimes

**Component Family Name:** Solar Power System Family

**Family Expiration Date:** September 30, 2025

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

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**Website:** <https://www.startimes.com.cn>

**Co-brand of:** Energy Station Family  
(OffgridSun srl)



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 IEC TS 62257-9-8.

**Quality Standards Framework Version:** 2024

**Revision:** 2025.04

Component-Level Standardized Specifications Sheet

StarTimes Software Technology Co., Ltd

Solar Power System Family

Starred components below are co-branded by StarTimes Software Technology Co., Ltd:

Batteries / Control Boxes				
Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
6000 mAh main unit battery	Lithium iron phosphate	6.4	6000	5900
Torch battery	Lithium iron phosphate	3.2	250	330
Radio battery	Lithium ion	3.7	1500	2000

PV Modules		
Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
8 W PV module	8	8
10 W PV module	10	not tested
Torch integrated PV module	0.2	0.2

Light Sources^			
Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
1 W lamp	110	100	100
1.7 W lamp	240	230	140
Torch (front lamp)	50	57	120
Torch (reading light)	-	Not tested	Not tested

Appliances^					
Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Torch	57 lumens torch, ( LiFePO4 battery: 330 mAh, 3.2 V) and a 0.2 W, 5 V PV module	0.5	0.47	250	330
Radio	Portable radio with 3.7 V Li-ion battery	3	0.45	1500	2000

^ Light points and appliances may perform differently when used with different systems.

**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 IEC TS 62257-9-8:2020. 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).

StarTimes Software Technology Co., Ltd  
Solar Power System Family

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

Only the kits denoted with \*\* were tested as full systems according to Edition 4 of IEC 62257-9-5 and passed IEC 62257-9-8 standards. An Individual Standardized Specification Sheet (SSS) that reports system-level performance is available for these systems at 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 IEC 62257-9-8.

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

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for the charging cable and radio.

# Available Daily Electrical Energy and Port Information

StarTimes Software Technology Co., Ltd

Solar Power System Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
E40C	25	yes
E40B	31	yes
E40	31	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.