

VeraSol

Standardized Specifications Book

Company Name: Xiamen E-Calling Electronic Co., Ltd

Brand Name: jOBEL

Component Family Name: jOBEL Solar Home Family

Family Expiration Date: December 31, 2026

Verify Online: <https://data.verasol.org/products/sek/xec-shf>

Contact Information: peter@e-calling.com

Website: www.jobel-tech.com



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

Xiamen E-Calling Electronic Co., Ltd

jOBEL Solar Home Family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
JBX50 main unit	Lithium iron phosphate	12.8	4000	3900
JBX100 main unit	Lithium iron phosphate	12.8	8000	not tested
JBX150 main unit	Lithium iron phosphate	12.8	12000	not tested
JBX230 main unit	Lithium iron phosphate	12.8	18000	18000

PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
16 W PV module	16	16
40 W PV module	40	not tested
50 W PV module	50	not tested
80 W PV module	80	73

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	High	High	High
Fixed Focus Lamp	300	330	130
Tubelight	400	500	130

* 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).

List of Covered Systems

Xiamen E-Calling Electronic Co., Ltd

jOBEL Solar Home Family

System Name	Number of each component included in each system									
	JBX50 main unit	JBX100 main unit	JBX150 main unit	JBX230 main unit	16 W PV module	40 W PV module	50 W PV module	80 W PV module	Fixed Focus Lamp	Tubelight
JBX50 Solar Home System **	1	--	--	--	1	--	--	--	3	--
JBX100 Solar Home System	--	1	--	--	--	1	--	--	3	--
JBX150 Solar Home System	--	--	1	--	--	--	1	--	3	0-2
JBX230 Solar Home System	--	--	--	1	--	--	--	1	3	0-2

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

NOTICE:

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:

Warranty Information

A 2-year warranty covering manufacturing defects in the system.

Available Daily Electrical Energy and Port Information

Xiamen E-Calling Electronic Co., Ltd
jOBEL Solar Home Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
JBX50 Solar Home System**	54	yes
JBX150 Solar Home System	172	yes
JBX230 Solar Home System	218	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.