

# VeraSol

## Standardized Specifications Book

**Manufacturer:** Shanghai EASY Renewable Energy Co., Ltd

**Component Family Name:** VEK

**Date of Standardized Specifications Book Expiration:** December 31, 2022

**Verify Online:** <https://data.verasol.org/products/sek/sez-vekfamily>

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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 Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8\*.

**Quality Standards Framework Version:** 2021

**Revision:** 2021.05

# Component-Level Standardized Specifications Sheet

Shanghai EASY Renewable Energy Co., Ltd

VEK

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity
VEK-8L	Lithium ion	3.7	16	18
VEK-4L	Lithium ion	3.7	8	9.2
VEK-8L-LFP	Lithium iron phosphate	6.4	5.6	6.0
VEK-12L-LFP	Lithium iron phosphate	6.4	8.4	9.0

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
VE-10W *	10	9.3
VE-5W	5	5.4

\* The 10 W module is a foldable module with two 5 W modules wired in series.

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	5	5	5
120 lm	120	150	100
180 lm	180	170	80
180 lm T5	180	180	110

**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

Shanghai EASY Renewable Energy Co., Ltd

VEK

System Name	Number of each component included in each system								
	Main Unit with 16 Ah battery	Main Unit with 8 Ah battery	Main Unit with 5.6 Ah battery	Main Unit with 8.4 Ah battery	10 W PV	5 W PV	120 lm bulb	180 lm bulb	180 T5 bulb
VEK-8L II **	1				1		1	2	
VEK-8L	1				1		0-2	0-2	0-2
VEK-4L		1				1	0-2	0-2	0-2
VEK-8L LFP			1		1		0-2	0-2	0-2
VEK-12L LFP				1	1		0-2	0-2	0-2

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

## **NOTICE:**

Only the VEK-8L II 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 VEK-8L II 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 Lighting Global Quality Standards or the requirements in IEC 62257-9-8.

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

## **Warranty Information**

Two year warranty on all kits and components