## VeraSol Standardized Specifications Book

Manufacturer: Chaohu Venus Solar Technology Co., Ltd.

Component Family Name: VEK12V Family

Date of Standardized June 30, 2025 Specifications Book Expiration:

**Verify Online:** https://data.verasol.org/products/sek/cvs-vek12vfamily

Contact Information: wei.cheng@ezrenewables.com

Website: www.ezrenewables.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 meet the requirements in IEC 62257-9-8.

**Revision: 2023.06** 

## **Component-Level Standardized Specifications Sheet**

Chaohu Venus Solar Technology Co., Ltd. VEK12V Family

Battery / Control Box						
Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)		
6 Ah LFP main unit	Lithium iron phosphate	12.8	6.0	6.1		
8 Ah LFP main unit	Lithium iron phosphate	12.8	8.0	8.0		
6.6 Ah main unit	Lithium-ion	11.1	6.6	not tested		
8.8 Ah main unit	Lithium-ion	11.1	8.8	not tested		
10 Ah main unit	Lithium-ion	11.1	10	9.5		
15 Ah main unit	Lithium-ion	11.1	15	14		

PV Module						
Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)				
20 W PV module	20	23				
30 W PV module	30	32				
40 W PV module	40	42				

Light Sources*						
Name / Model Number	Luminous Flux Rating (Im)					
	On	On	On			
2 W lamp	200	320	140			
7 W lamp	not stated	1020	140			

**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 may perform differently when used with different systems.

## List of Covered Systems

# Chaohu Venus Solar Technology Co., Ltd. VEK12V Family

	Number of each component included in each system										
System Name	6 Ah LFP main unit	8 Ah LFP main unit	6.6 Ah main unit	8.8 Ah main unit	10 Ah main unit	15 Ah main unit	20 W PV module	30 W PV module	40 W PV module	2 W lamp	7 W lamp
VEK1206-LFP**	1						1			2	
VEK1208-LFP		1						1		2	Optional
VEK1206			1				1	1		2	Optional
VEK1208				1				1		2	Optional
VEK1210**				-	1	-		1		2	
VEK1215						1			1	2	Optional

<sup>\*\*</sup>Tested as full systems. Individual SSS available on VeraSol website.

#### NOTICE:

Only the Solar Home System (VEK1206-LFP) and Solar Home System (VEK1210) 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 Home System (VEK1206-LFP) at https://data.verasol.org/products/sek/cvs-vek1206 and Solar Home System (VEK1210) at https://data.verasol.org/products/sek/cvs-vek1210. 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**

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

## Available Daily Electrical Energy and Port Information

Chaohu Venus Solar Technology Co., Ltd. VEK12V Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
VEK1206-LFP**	84	yes
VEK1208-LFP	100	yes
VEK1206	75	yes
VEK1208	100	yes
VEK1210**	117	yes
VEK1215	140	yes

<sup>\*\*</sup>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.