

VeraSol

Standardized Specifications Book

Manufacturer: Shanghai EASY Renewables Tech Co., Ltd

Component Family Name: Venus SHS Family

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Book Expiration:

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

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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: 2021.07

Component-Level Standardized Specifications Sheet

Shanghai EASY Renewables Tech Co., Ltd

Venus SHS Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
133 Wh battery	Lithium-ion (NMC)	11.1	12	13
200 Wh battery	Lithium-ion (NMC)	11.1	18	--
266 Wh battery	Lithium-ion (NMC)	11.1	24	26
400 Wh battery	Lithium-ion (NMC)	11.1	36	--
600 Wh battery	Lithium-ion (NMC)	11.1	54	--
800 Wh battery	Lithium-ion (NMC)	11.1	72	77
256 Wh battery	LiFePO ₄	12.8	21	21
512 Wh battery	LiFePO ₄	12.8	20	42

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
Venus Solar 50 W PV module	50	60
Venus Solar 60 W PV module	60	--
Venus Solar 80 W PV module	80	83
Venus Solar 100 W PV module	100	--
Venus Solar 170 W PV module	170	167

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	ε ₀	ε ₀	ε ₀
2.3 W LED Lamp	200	230	100
3 W LED Lamp	Not stated	280	83
5 W LED Lamp	Not stated	420	90
7 W LED Lamp	640	710	92

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 Renewables Tech Co., Ltd

Venus SHS Family

System Name	Number of each component included in each system																
	2.3 W LED Lamp	3 W LED Lamp **	5 W LED Lamp **	7 W LED Lamp **	133 Wh battery	200 Wh battery	266 Wh battery	400 Wh battery	600 Wh battery	800 Wh battery	256 Wh battery (LFP)	512 Wh battery (LFP)	50 W PV module	60 W PV module	80 W PV module	100 W PV module	170 W PV module
VE-SHS-1212	4	--	--	--	1								1				
VE-SHS-1212-PAYG	4	--	--	--	1								1				
VE-SHS-1218	4	--	--	--		1								1			
VE-SHS-1218-PAYG	4	--	--	--		1								1			
VE-SHS-1224	4	--	--	--			1								1		
VE-SHS-1224-PAYG*	4	--	--	--			1								1		
VE-SHS-1236	4	--	--	--				1									1
VE-SHS-1236-PAYG	4	--	--	--				1									1
VE-SHS-1254	4	--	--	--					1							2	
VE-SHS-1254-PAYG	4	--	--	--					1							2	
VE-SHS-1272	4	--	--	--						1							2
VE-SHS-1272-PAYG	4	--	--	--						1							2
VE-SHS-1220	4	--	--	--							1				1		
VE-SHS-1220-PAYG	4	--	--	--							1				1		
VE-SHS-1240	4	--	--	--								1					1
VE-SHS-1240-PAYG	4	--	--	--								1					1

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

** The 2.3W lamps can be replaced by the 3W, 5W, and 7W options

NOTICE:

Only the Venus Solar Home System (VE-SHS-1224), and was 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 Venus Solar Home System (VE-SHS-1224) 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