

# VeraSol

## Standardized Specifications Book

**Manufacturer:** JUA Energy Co., Ltd.

**Component Family Name:** Home Mate H4 Family

**Date of Standardized Specifications Book Expiration:** September 30, 2024

**Verify Online:** <https://data.verasol.org/products/sek/jua-h4family>

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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.

**Revision:** 2022.11

# Component-Level Standardized Specifications Sheet

JUA Energy Co., Ltd.

Home Mate H4 Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
150 Wh battery	Lithium iron phosphate	12.8	12	12
220 Wh battery	Lithium iron phosphate	12.8	17	not tested
300 Wh battery	Lithium iron phosphate	12.8	23	24

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
60 W PV Module	60	58
80 W PV Module	80	74
100 W PV Module	100	96

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
200 lm lamp	200	not tested	220	not tested	100	not tested
300 lm lamp	300		310		110	
500 lm lamp	500		550		110	

## Appliances\*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
16" Fan	16" standing fan	--	10	--	--
24" TV	24" diagonal	12	11	--	--

**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

JUA Energy Co., Ltd.

Home Mate H4 Family

	Number of each component included in each system										
System Name	200 lm lamp	300 lm lamp	500 lm lamp	60 W PV Module	80 W PV Module	100 W PV Module	Main unit with 150 Wh Battery	Main Unit with 220 Wh Battery	Main Unit with 300 Wh Battery	24" TV	16" Fan
H4-150	4		1	1			1			1	1
H4G-150**	4		1	1			1			1	1
H4-220		3	2		1			1		1	1
H4G-220		3	2		1			1		1	1
H4-300			5			1			1	1	1
H4G-300			5			1			1	1	1

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

## **NOTICE:**

Only the H4G-150 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 H4G-150, the , and the 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

# Available Daily Electrical Energy and Port Information

JUA Energy Co., Ltd.

Home Mate H4 Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
H4G-220	230	yes
H4G-150**	170	yes
H4G-300	360	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. 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.