

# VeraSol

## Standardized Specifications Book

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

**Component Family Name:** Home Mate H2 Family

**Date of Standardized Specifications Book Expiration:** January 31, 2026

**Verify Online:** <https://data.verasol.org/products/sek/jua-h2family>

**Contact Information:** [hill.ren@juaenergy.com](mailto:hill.ren@juaenergy.com)

**Website:** [www.juaenergy.com](http://www.juaenergy.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:** 2025.01

# Component-Level Standardized Specifications Sheet

JUA Energy Co., Ltd.

Home Mate H2 Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
19 Wh battery	Lithium iron phosphate	3.2	6000	6100
38 Wh battery	Lithium iron phosphate	3.2	12000	11800
56 Wh battery	Lithium iron phosphate	3.2	18000	17900

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
5 W PV module	5	4.7
12 W PV module	12	12
18 W PV module	18	18

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
100 lm lamp	100	140	140
130 lm lamp	130	180	140
200 lm lamp	200	260	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

JUA Energy Co., Ltd.

Home Mate H2 Family

System Name	Number of each component included in each system								
	100 lm lamp	130 lm lamp	200 lm lamp	5 W PV module	12 W PV module	18 W PV module	19 Wh battery	38 Wh battery	56 Wh battery
H2-20	3	--	--	1	--	--	1	--	--
H2G-20°	3	--	--	1	--	--	1	--	--
H2G-20M°	3	--	--	--	1	--	1	--	--
H2G-20M	3	--	--	--	1	--	1	--	--
H2-40 **	--	3	--	--	1	--	--	1	--
H2G-40°	--	3	--	--	1	--	--	1	--
H2-40A	4	--	--	--	1	--	--	1	--
H2G-40A°	4	--	--	--	1	--	--	1	--
H2-60	--	--	4	--	--	1	--	--	1
H2G-60°	--	--	4	--	--	1	--	--	1

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

°Kit has PAYG function

### 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

JUA Energy Co., Ltd.  
Home Mate H2 Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
H2-20	13	yes
H2G-20°	13	yes
H2-40**	25	yes
H2G-40°	25	yes
H2-40A	25	yes
H2G-40A°	25	yes
H2-60	44	yes
H2G-60°	44	yes

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

°Kit has PAYG function

### **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.