

VeraSol

Standardized Specifications Book

Manufacturer: JUA Energy Co., Ltd.

Component Family Name: Home Mate H3 Family

Date of Standardized Specifications Book Expiration: September 30, 2022

Verify Online: <https://data.verasol.org/products/sek/jua-h3family>

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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.

Quality Standards Framework Version: 2020

Revision: 2021.04

Component-Level Standardized Specifications Sheet

JUA Energy Co., Ltd.

Home Mate H3 Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
38 Wh battery	Lithium iron phosphate	6.4	5.9	7
56 Wh battery	Lithium iron phosphate	6.4	8.8	not tested
76 Wh battery	Lithium iron phosphate	6.4	11.8	not tested
110 Wh battery	Lithium iron phosphate	6.4	17.2	18

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
12 W PV Module	12	13
20 W PV Module	20	not tested
30 W PV Module	30	not tested
40 W PV Module	40	37
50 W PV Module	50	48

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
130 lm lamp	130	Not Tested	150	Not Tested	120	Not Tested
200 lm Round lamp	200		200	80	100	120
200 lm Shaded lamp	200		220	Not Tested	100	Not Tested
300 lm lamp	300		310		110	

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
24" TV	24" diagonal (10.9 W power consumption while in-use)	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. 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 H3 Family

System Name	Number of each component included in each system													
	Light Points				PV module					Battery				24" TV
	130 lm lamp	200 lm Round lamp	200 lm Shaded lamp	300 lm lamp	12 W PV Module	20 W PV Module	30 W PV Module	40 W PV Module	50 W PV Module	Main Unit with 38 Wh Battery	Main Unit with 56 Wh Battery	Main Unit with 76 Wh Battery	Main Unit with 110 Wh Battery	
H3-38	2		1		1					1				
H3G-38	2		1		1					1				
H3-38A	2		1			1				1				
H3G-38A	2		1			1				1				
H3-56	3			1		1					1			
H3G-56	3			1		1					1			
H3-76	2		1				1					1		1
H3G-76	2		1				1					1		1
H3G-76A	2		1					1				1		1
H3G-76B	2		1						1			1		1
H3G-76C		3				1						1		
H3G-76C (Solektra) **		3				1						1		
H3-110 ***			3	1				1					1	1
H3G-110			3	1				1					1	1
H3-110A			3	1					1				1	1
H3G-110A			3	1					1				1	1

** The H3G-76C is co-branded by Solektra and is equivalent to the JUA Energy version. For more details, please visit the product's listing at:

<https://data.verasol.org/products/sek/sol-h3g>

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

NOTICE:

Only the H3-110 was fully tested as a system according to Edition 4 of IEC 62257-9-5. An individual Standardized Specifications Sheets (SSS) that reports system-level performance is available for the H3-110 at <https://data.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 the applicable Lighting Global Quality Standards.

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

Warranty Information

Two year warranty on all kits and components

Marks and Certifications

Factory certification

ISO 9001:2008

Available Daily Electrical Energy and Port Information

JUA Energy Co., Ltd.
Home Mate H3 Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
H3-110 **	126	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.