## **HOME MATE Solar Home System**

H3G-110

**Brand name: JUA Energy** 

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8

Verify online:

https://data.verasol.org/products/sek/jua-h3g110
Valid until: September 30, 2026



Meets the Requirements in IEC TS 62257-9-8:2020 for Size B kits



Mobile charging



Pay-As-You-Go option available



Light point(s)



Plug-and-play



## WARRANTY INFORMATION

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

## PERFORMANCE DETAILS

				char	/pical day of solar ging kWh/m²/day)
VeraSol Certified?	Included in Kit?	<b>A</b> ppliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	4 light points on high totaling 1260 lumens and 10 W power	12 hours	3.5 hours
yes	not included	Television	24" diagonal (11 W power consumption while in use)	11 hours	1.8 hours
no	not included	Fan	16" standing fan (12 W power consumption while in use)	8.5 hours	4.4 hours
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.5 W	180 hours	2.6 hours
no	not included	Mobile phone	Smartphone (5.7 Wh battery)	16 full charge(s)	0.88 full charge(s)

Available daily electrical e	nergy <sup>c</sup> (Wh/day)	130
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Performance measure	Brightness setting: 4 lights on high
Lighting full battery run time <sup>d</sup> for main unit (hours)	10
Total lighting service (lumen-hours / solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	15100

<sup>&</sup>lt;sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

d Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAIL	LIGHTING DETAILS									
Lamp name	Number of lamps	Number of settings	Setting name	Light output (lm)	Power consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>9</sup>	Distribution type	Lumen maintenance <sup>h</sup>
200 lm lamp	3	2	high	270	2.2	120	88	6600	Wide	100%
300 lm lamp	1	2	high	440	3.7	120	88	6700	Wide	100%

<sup>&</sup>lt;sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>&</sup>lt;sup>b</sup> Without any other loads used during the run time

<sup>&</sup>lt;sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>&</sup>lt;sup>f</sup>Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>&</sup>lt;sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K).

h Percent of the original light output that remains after 2,000 hours of run time.

Mobile phennes and racions can be changed. Adapters not included.	PORTS						
Durability and workmanship	2	USB 2.0 type A	-	Mobile phones and radios can be charged. Adapters not included.			
Durability tests passed	4	Barrel jack	-	Four 12 V ports available to power light points and appliances.			
Durability tests passed   Switch test. Strain relief test, Physical ingress protection. PV durability tests	DURABILITY	DURABILITY					
Main Unit   Water ingress protection not tested, meant for indoor use only.   PV module   Has protection from permanent outdoor exposure	Overall dura	ability and workmanship		Pass			
Level of water protection  PV module  100 and 300 im lamps  Water ingress protection not tested, meant for indoor use only.  SOLAR DETAILS  PV module type  Monocrystalline silicon  PV maximum power  9 38 W  PV open-circuit voltage (Voc.)  12.8 V  MAIN UNIT BATTERY DETAILS  Battery replaceability  Not easily replaceable with common tools.  Battery replaceability  Battery chemistry  Lithium iron phosphate  Battery capacity  18 Ah  Ralad Batliery capacity  Battery capacity  19 Ah  Ralad Batliery capacity  Battery status / other indicator lights  Product name  Product name  Product name  HOME MATE Solar Home System  Product mame  Product mame  HOME MATE Solar Home System  Website  www.juenergy.com  Website  www.juenergy.com  Mass  SSS INFORMATION  Specs sheet expiration date  Mater product in package  September 30, 2026  Mass  September 30, 2026	Durability te	ests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests			
Water ingress protection not tested, meant for indoor use only.			Main Unit	Water ingress protection not tested, meant for indoor use only.			
SOLAR DETAILS  PV module type Monocrystalline silicon  PV maximum power 38 W  PV rated power 40 W  PV open-circuit voltage (Voc) 21.8 V  MAIN UNIT BATTERY DETAILS  Battery replaceability Not easily replaceable with common tools.  Battery package type 32700  Battery package type 32700  Battery capacity 18 Ah  Rated Battery capacity 18 Ah  Battery capacity 18 Ah  Battery nominal voltage 12.8 V  Battery status / other indicator lights Four indicators for battery state of charge, one indicator for PV charging, three indicators for PAYG credit status  PRODUCT DETAILS  Company name JUA Energy Co., Ltd.  Brand Name JUA Energy  Product name HOME MATE Solar Home System  Product nodel / ID number H3G-110  Contact information hilt rem@juaenergy.com  Website www.juaenergy.com  Mittple packages. Contact manufacturer for more information.  Mass n'a  SSS INFORMATION  Specs sheet expiration date  September 30, 2026	Level of wat	ter protection	PV module	Has protection from permanent outdoor exposure			
PV maximum power 38 W PV rated power 40 W PV open-circuit voltage (Voc) 21.8 V  MAIN UNIT BATTERY DETAILS Battery replaceability Not easily replaceable with common tools. Battery replaceability Lithium iron phosphate Battery package type 32700 Battery capacity 18 Ah Rated Battery capacity 18 Ah Battery replaceability 18 Ah Battery replaceability 18 Ah Battery replaceability 19 Annual Power April 19 Annual Power Apr			200 and 300 lm lamps	Water ingress protection not tested, meant for indoor use only.			
PV maximum power	SOLAR DETA	AILS					
PV rated power PV open-circuit voltage (Voc) 21.8 V  MAIN UNIT BATTERY DETAILS  Battery replaceability Not easily replaceable with common tools.  Battery chemistry Lithium iron phosphate Battery package type 32700  Battery capacity 18 Ah  Rated Battery capacity 18 Ah  Battery nominal voltage 12.8 V  Battery status / other indicator lights Four indicators for battery state of charge, one indicator for PV charging, three indicators for PAYG credit status  PRODUCT DETAILS  Company name JUA Energy Co., Ltd.  Brand Name JUA Energy Product name HOME MATE Solar Home System  Product name HOME MATE Solar Home System  Product nodel / ID number H3G-110  Contact information hill:ren@juaenergy.com Website www.juaenergy.com  Multiple packages. Contact manufacturer for more information.  Mass n/a  SSS INFORMATION  Specs sheet expiration date  September 30, 2026	PV module ty	type		Monocrystalline silicon			
PV open-circuit voltage (Voc)  MAIN UNIT BATTERY DETAILS  Battery replaceability  Not easily replaceable with common tools.  Lithium iron phosphate  Battery chemistry  Lithium iron phosphate  Battery package type  32700  Battery package type  18 Ah  Rated Battery capacity  18 Ah  Battery nominal voltage  Battery status / other indicator lights  Four indicators for battery state of charge, one indicator for PV charging, three indicators for PAYG credit status  PRODUCT DETAILS  Company name  JUA Energy Co., Ltd.  Brand Name  Product name  HOME MATE Solar Home System  Product model / ID number  Contact information  Mebsite  www.juaenergy.com  Multiple packages. Contact manufacturer for more information.  Mass  N/a  September 30, 2026	PV maximum	n power		38 W			
Battery replaceability Not easily replaceable with common tools.  Battery chemistry Lithium iron phosphate  Battery package type 32700  Battery package type 32700  Battery capacity 18 Ah Rated Battery capacity 18 Ah Battery nominal voltage 12.8 V  Battery nominal voltage 12.8 V  Battery nominal voltage 50 Ah Battery nominal voltage 10 Ah Battery packages nominal nominal voltage 10 Ah Battery packages nominal voltage 10 Ah Bat	PV rated pov	wer		40 W			
Battery replaceability  Battery chemistry  Lithium iron phosphate  Battery package type  32700  Battery capacity  Battery capacity  18 Ah  Rated Battery capacity  Battery nominal voltage  12.8 V  Battery status / other indicator lights  Four indicators for battery state of charge, one indicator for PV charging, three indicators for PAYG credit status  PRODUCT DETAILS  Company name  JUA Energy Co., Ltd.  Brand Name  JUA Energy  Product name  HOME MATE Solar Home System  Product model / ID number  H3G-110  Contact information  hill.ren@juaenergy.com  Website  Dimensions (entire product in package)  Multiple packages. Contact manufacturer for more information.  Mass  September 30, 2026	PV open-circ	cuit voltage (V <sub>oc</sub> )		21.8 V			
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Battery package type 32700  Battery capacity 18 Ah  Rated Battery capacity 12.8 V  Battery nominal voltage 12.8 V  Battery status / other indicator lights Four indicators for battery state of charge, one indicator for PV charging, three indicators for PAYG credit status  PRODUCT DETAILS  Company name JUA Energy Co., Ltd.  Brand Name JUA Energy  Product name HOME MATE Solar Home System  Product model / ID number H3G-110  Contact information hill.ren@juaenergy.com  Website www.juaenergy.com  Dimensions (entire product in package) Multiple packages. Contact manufacturer for more information.  Mass n/a  September 30, 2026	Battery repla	aceability		Not easily replaceable with common tools.			
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	SSS INFORMATION						
	Specs sheet	t expiration date		September 30, 2026			
	Revision			2025.06			