

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

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
VeraSol Certified?	Included in Kit?	Appliance <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 energy <sup>c</sup> (Wh/day)	130
---	-----

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

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

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

<sup>d</sup> 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 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>g</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>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

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

<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).

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

PORTS		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters not included.
4	Barrel jack	 Four 12 V ports available to power light points and appliances.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	200 and 300 lm lamps	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 (V <sub>oc</sub> )		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 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
SSS INFORMATION		
Specs sheet expiration date		September 30, 2026
Revision		2025.06