

# H2-40 Home Mate

H2-40  
JUA Energy Co., Ltd.

Verify online:  
<https://data.verasol.org/products/sek/jua-h2-40>  
Valid until: January 31, 2026

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



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



Mobile charging

3

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

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

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 light points on (On) totaling 530 lumens and 3.9 W power	6.9 hours	4.7 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	5.4 full charge(s)	1.2 full charge(s)
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	40 hours	3.6 hours

Available daily electrical energy <sup>c</sup> (Wh/day)	25
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Performance measure	Brightness setting: 3 lamps on "on"
Lighting full battery run time <sup>d</sup> for main unit (hours)	8.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3660

<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	Light output (lm)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
130 lm lamp	3	1	On	180	140	83	7100	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			
1	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are not included.
3	Barrel jack		12 V ports available to power light points.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	130 lm lamp	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	12 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Specific Li-ion battery chemistry	lithium iron phosphate
Battery package type	2x 32700
Battery capacity	11.8 Ah
Battery nominal voltage	3.2 V
Battery status/ other indicator lights	four indicators for battery level

PRODUCT DETAILS	
Manufacturer name	JUA Energy Co., Ltd.
Product name	H2-40 Home Mate
Product model / ID number	H2-40
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	January 31, 2026
Revision	2024.02