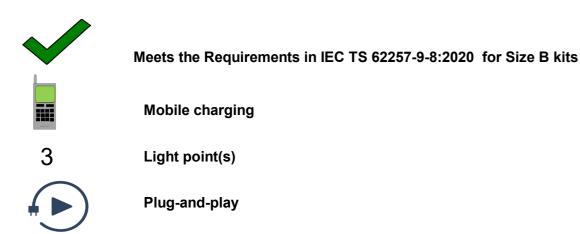
H2-40 Home Mate

H2-40

JUA Energy Co., Ltd.

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-h2-40 Valid until: January 31, 2026





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/m²/day)				
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c	
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^c (Wh/day) 25

Performance measure	Brightness setting: 3 lamps on "on"		
Lighting full battery run time ^d 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		

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

^b Without any other loads used during the run time

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

^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 DETAILS									
Lamp name	Number of lamps	Number of settings	Setting	Light output (Im)	Lumen efficacy ^e (Im/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
130 lm lamp	3	1	On	180	140	83	7100	Wide	100%

^e Lumen efficacy is the power consumption at a light point during the light output test.

^fColor Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^g 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

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		
	Main Unit	Water ingress protection not tested, meant for indoor use only.		
Level of water protection	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		