

Home Mate H3-110 Solar Home System

H3-110
JUA Energy Co. Ltd.

Results based on test procedures detailed in
IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/jua-h3-110>

Valid until: September 30, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 24-month warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main lighting unit	4 light points on high totaling 970 lumens and 9.5 W power	11 hours	4.2 hours
	Television	24" diagonal (11 W power consumption while in-use)	12 hours	2.1 hours
sold separately	Fan	16" standing fan (10.1 W power)	13 hours	5.4 hours
	Radio	portable radio (Li-Ion battery: 1 Ah, 3.7 V, 0.5 W power consumption)	170 hours	3.3 hours
	Smart phone	Smart phone (5.7 Wh battery)	16 full charge(s)	1.1 full charge(s)

Available daily electrical energy^e (Wh/day)

130

Performance measure

Brightness setting: high

Lighting full battery run time^d for main unit (hours)

11

Total lighting service (lumen-hours/solar-day)

10700

(includes the both main lighting unit and any lights with internal batteries included with the product)

LIGHTING DETAILS



Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy ^e (lm/W)	CR ^f	CCT ^g	Distribution type	Lumen maintenance ^h
200 lm lamp	3	2	high	220	100	75	7400	Wide	99%
300 lm lamp	1	2	high	310	110	78	7400	Wide	99%

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

^f Color 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		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are 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, Drop test (remote only), 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
	200 lm lamp	Water ingress protection not tested, meant for indoor use only.
	300 lm lamp	Water ingress protection not tested, meant for indoor use only.
	24" TV	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		37 watts
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
Battery nominal voltage		6.4 V
Battery status indication		Four indicators for battery state of charge, one indicator for PV charging
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015
PRODUCT DETAILS		
Manufacturer name		JUA Energy Co. Ltd.
Product name		Home Mate H3-110 Solar Home System
Product model / ID number		H3-110
Contact information		hill.ren@juaenergy.com
Website		www.juaenergy.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		6605 g
SSS INFORMATION		
Specs sheet expiration date		September 30, 2022
Quality standards framework version		2020
Revision		2020.09