

Home Mate H3G-110

H3G-110
JUA Energy Co., Ltd.

Verify online:
<https://data.verasol.org/products/sek/jua-h3g110>
Valid until: September 30, 2024

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 for Size B Kits



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	4 light points on high totaling 1260 lumens and 10 W power	10 hours	3.8 hours
yes	included	Television	24" diagonal (11 W power consumption while in use)	12 hours	1.9 hours
yes	not included	Fan	16" standing fan (12 W power consumption while in use)	11 hours	4.8 hours
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.5 W	170 hours	2.9 hours
no	not included	Mobile phone	Smartphone (5.7 Wh battery)	16 full charge(s)	1 full charge(s)

Available daily electrical energy ^c (Wh/day)	120
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Performance measure	Brightness setting: high
Lighting full battery run time ^d 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)	12600

^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 (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
200 lm lamp	3	2	high	270	120	88	6600	Wide	100%
300 lm lamp	1	2	high	440	120	88	6700	Wide	100%

^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

SPECIAL FEATURES		
PAYG	★ Pay-As-You-Go enabled	
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 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.
	Television	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	
Specific Li-ion battery chemistry	lithium iron phosphate	
Battery package type	32700	
Battery capacity	18 Ah	
Battery nominal voltage	6.4 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		
Manufacturer name	JUA Energy Co., Ltd.	
Product name	Home Mate H3G-110	
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, 2024	
Revision	2022.11	