

HOME MATE Solar Energy System

H4G-300

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-h4g300>

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

5

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 ² /day) | |
|--------------------|------------------|------------------------|---|---|----------------------------------|
| VeraSol Certified? | Included in Kit? | Appliance ^a | Description | Used alone ^b | Used in combination ^c |
| yes | included | Main lighting unit | 5 light points on High totaling 2650 lumens and 27 W power | 10 hours | 5 hours |
| no | not included | Smart phone | Smart phone (5.7 Wh battery) | 33 full charge(s) | 1.3 full charge(s) |
| no | not included | Television | Larger than 16" (diagonal) (15 W power consumption while in use) | 19 hours | 2.5 hours |
| no | not included | Fan | 16" diameter table fan (15 W power consumption while in use) | 19 hours | 6.2 hours |
| no | not included | Radio | Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use | 370 hours | 3.8 hours |



| | |
|---|-----|
| Available daily electrical energy ^c (Wh/day) | 280 |
|---|-----|

| Performance measure | Brightness setting: Five lights on 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) | 26500 |

^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 name | Light output (lm) | Power consumption (W) | Lumen efficacy ^e (lm/W) | CRI ^f | CCT ^g | Distribution type | Lumen maintenance ^h |
| 500 lm lamp | 5 | 2 | High | 530 | 5.3 | 100 | 78 | 10400 | Wide | 99% |
| | | | Low | Not tested | Not tested | Not tested | Not tested | Not tested | Not tested | Not tested |

^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. |
| 6 | Barrel jack |  12 V ports available to charge devices and power appliances and light points. |
| 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 |
| | 500 lm lamp | Water ingress protection not tested, meant for indoor use only. |
| SOLAR DETAILS | | |
| PV module type | | Monocrystalline silicon |
| PV maximum power | | 91 W |
| PV rated power | | 100 W |
| PV open-circuit voltage (V _{oc}) | | 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 | | 24 Ah |
| Rated Battery capacity | | 24 Ah |
| Battery nominal voltage | | 12.8 V |
| Battery status / other indicator lights | | One indicator for charging status, four indicators for battery status, and three indicators for credit. |
| PRODUCT DETAILS | | |
| Company name | | JUA Energy Co., Ltd. |
| Brand Name | | JUA Energy |
| Product name | | HOME MATE Solar Energy System |
| Product model / ID number | | H4G-300 |
| 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 |