Verify online

https://data.verasol.org/products/sek/mk-mk600TV Valid until: February 28, 2023



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging



Pay-As-You-Go option available



Light point(s)



Plug-and-play



WARRANTY INFORMATION

PERFORMANCE DETAILS

3-year warranty covering manufacturing defects in the system, inlcuding the control box, TV, bulbs, and solar panel. 1-year warranty for the phone charging cable and custom charging cable.

| | | | Run time after a typi chargii | - |
|--------------------|------------------------|--|----------------------------------|----------------------------------|
| | | | (assuming 5kW | /h/m²/day) |
| | Appliance ^a | Description | Used alone ^b | Used in combination ^c |
| included in kit | Main lighting unit | Two bulbs and one tubelight on high, totaling 420 lumens and 3.4 W power | 21.5 hours | 8.8 hours |
| in clu | Television | 24" diagonal (7.4 W power consumption while in-use) | 12.7 hours | 4.4 hours |
| <u> </u> | Mobile phone | Basic phone (3.7 Wh battery) | 17.2 full charge(s) | 2.2 full charge(s) |
| separately | Portable Radio | Portable radio with rechargable 1800 mAh Li-ion 3.7 V battery and 0.2 W power | 239 hours | 6.6 hours |
| plos | Torch | 1 light point with rechargable 1800 mAh Li- ion 3.7 V battery on bright totaling 94 lumens and 1.4 W power | 52.4 hours | 8.9 hours |

Available daily electrical energy^c (Wh/day) 87

| Brightness setting: high |
|--------------------------|
| 21.5 |
| 9030 |
| |

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

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 | CCTa | Distribution type | Lumen maintenance ^h |
| Bulb | 2 | 2 | High | 120 | 110 | 82 | 6500 | Wide | 99% |
| Tubelight | 1 | 2 | High | 180 | 130 | 84 | 6500 | Wide | 99% |

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

^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.

¹Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

⁹ 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

| 7 5 | ype A | | Mobile phones can be charged. An adapter is included. |
|---|--------|-------------------|---|
| 7 Barrel jac | k | - | Four 6.5 V light ports, one 12 V port for powering a TV, a 6.5 V port for charging M KOPA radio and torch (sold separately), and a 12 V DC output port. |
| URABILITY | | | |
| verall durability and workmansh | ip | | Pass |
| urability tests passed | | | Switch test, Strain relief test, Physical ingress protection. |
| | | Main Unit | Has protection from occasional rain; met with appropriate warning label |
| | | PV module | Has protection from permanent outdoor exposure |
| | | Bulb | Has protection from occasional rain; met with appropriate warning label |
| | | Tubelight | Has protection from occasional rain; met with appropriate warning label |
| Level of water prote | ection | 24" TV | Has protection from occasional rain; met with appropriate warning label |
| | | TV remote control | Water ingress protection not tested, meant for indoor use only. |
| | | Portable radio | Has protection from occasional rain; met with appropriate warning label |
| | | Torch | Has protection from occasional rain; met with appropriate warning label |
| | | | <u> </u> |
| OLAR DETAILS | | | |
| JEAN DE IAILO | | | |
| / module type | | | Polycrystalline silicon |
| / module type / maximum power | | | Polycrystalline silicon 28 watts |
| / maximum power | | | |
| / maximum power AIN UNIT BATTERY DETAILS | | | 28 watts |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability | | | 28 watts Not easily replaceable with common tools. |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage attery status indication | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage attery status indication | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network connectivity, and PAYGO credits. |
| W maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage attery status indication RODUCT DETAILS anufacturer name | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network connectivity, and PAYGO credits. M-KOPA Solar |
| W maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage attery status indication RODUCT DETAILS anufacturer name roduct name | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network connectivity, and PAYGO credits. M-KOPA Solar M-KOPA 600 TV |
| W maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage attery status indication RODUCT DETAILS anufacturer name roduct mame roduct model / ID number | | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network connectivity, and PAYGO credits. M-KOPA Solar M-KOPA 600 TV MKOPA600B |
| V maximum power AIN UNIT BATTERY DETAILS attery replaceability attery chemistry attery package type attery capacity attery nominal voltage attery status indication RODUCT DETAILS anufacturer name roduct mame roduct model / ID number ontact information | skage) | | 28 watts Not easily replaceable with common tools. Lithium iron phosphate 26650 9.9 Ah 9.6 V The main control unit has one screen that displays the battery charge, network connectivity, and PAYGO credits. M-KOPA Solar M-KOPA 600 TV MKOPA600B manish.sharma@m-kopa.com |

2020

2020.08

Quality standards framework version

Revision