# 80W TV400-24 Solar Home System

**Azuri Technologies, Ltd.**

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

✔ **Meets the Lighting Global Solar Home System Kit Quality Standards**

📱 **Mobile charging**

**PAYG** **Pay-As-You-Go**

**5** **Light point(s)**

▶ **Plug-and-play**



## WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system and a 1-year warranty for the radio, torch, TV and phone charging cable.

## PERFORMANCE DETAILS

| | Appliance[a] | Description | Run time after a typical day of solar charging (assuming 5kWh/m²/day) | |
|---|---|---|---|---|
| | | | Used alone[b] | Used in combination[c] |
| included in kit | Main Lighting on Brightest Setting | 4 light points on highest setting totaling 850 lumens and 6.6 W power | 25 hours | 11 hours |
| | G3 Torch | 2000 mAh, 100 lumens torch, 3.7 V nominal voltage | 110 hours | 11 hours |
| | 24" TV | 24" diagonal (11.8 W power consumption while in-use) | 15 hours | 5.3 hours |
| | A5 radio | Portable (1000 mAh battery, 3.7 V nominal voltage), with a power consumption of 0.26 W while in-use | 500 hours | 8.1 hours |
| sold separately | Smart phone | Smart phone (5.7 Wh battery) | 21 full charge(s) | 2.7 full charge(s) |

| Available daily electrical energy[c] (Wh/day) | 165 |
|---|---|

*(Additional energy may be available for daytime use of appliances.)

| Performance measure | Brightness setting: brightest |
|---|---|
| Lighting full battery run time[d] for main unit (hours) | 25 |
| Lighting full battery run time torch (hours) | 110 |
| Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product) | 20000 |

[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] |
|---|---|---|---|---|---|---|---|---|---|
| G6 LED light | 2 | 3 | brightest | 140 | 130 | 82 | 4100 | Wide | 96% |
| K1 tubelight | 2 | | | 280 | | 83 | | | 98% |
| G3 Torch | 1 | 2 | high | 100 | 100 | 71 | 5800 | Narrow | 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 vieiwing 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 | | | |
|---|---|---|---|
| **Pay-as-you-go (PAYG)** | ⭐ | **Keypad for entering PAYG authorisation code** | |

| PORTS | | | |
|---|---|---|---|
| 2 | **USB 2.0 type A** | | Mobile and smart phones, torches, and radios can be charged |
| 4 | **Barrel jack** | | 12 V lighting ports |
| 2 | **3 pole Barrel jack** | | 12 V accessory port, can be used for powering TVs |

| DURABILITY | | |
|---|---|---|
| Overall durability and workmanship | | Pass |
| Durability tests passed | | Switch test, Drop test, Strain relief test, physical ingress protection. |
| Level of water protection | Main Lighting Unit | Water ingress protection not tested, meant for indoor use only. |
| | PV module | Has protection from permanent outdoor exposure . |
| | Torch | Has protection from frequent rain; met IPX3. |
| | Radio | Has protection from occasional rain; met with appropriate warning label. |
| | 24" TV | Water ingress protection not tested, meant for indoor use only. |

| SOLAR DETAILS | |
|---|---|
| PV module type | Polycrystalline silicon |
| PV maximum power | 85 watts |

| BATTERY DETAILS | |
|---|---|
| Battery replaceability | Not easily replaceable with common tools. |
| Battery chemistry | Lithium iron phosphate |
| Battery package type | 22650 x 2P x 4S |
| Battery capacity | 13.2 Ah |
| Battery nominal voltage | 12.8 V |
| Battery status indication | Four indicators for function buttons, one indicator for credit and low battery status, one screen for credit, battery state of charge, PV charging intensity and protection status. |

| MARKS AND CERTIFICATIONS | |
|---|---|
| Factory certification | ISO 9001:2015 (Radio, Control unit, Lights, Torch, PV Module); ISO 14001:2015 (Radio, Control Unit, PV Module) |

| PRODUCT DETAILS | |
|---|---|
| Manufacturer name | Azuri Technologies, Ltd. |
| Product name | 80W TV400-24 Solar Home System |
| Product model / ID number | AZ002813 (kit) comprising: AZ002659 (PV Module); AZ002653 (Control Unit); AZ002421 (K1 tubelight); AZ002470 (G6 LED lamp); AZ002469 (24" TV); AZ002370 (Torch); AZ002477 (radio); AZ002199 (phone charging cable) |
| Contact information | info@azuri-technologies.com |
| Website | www.azuri-technologies.com |
| Dimensions (entire product in package) | Multiple packages. Contact manufacturer for more information. |
| Mass | Multiple packages. Contact manufacturer for more information. |

| SSS INFORMATION | |
|---|---|
| Specs sheet expiration date | January 31, 2021 |
| Quality standards framework version | 2020 |
| Revision | 2020.05 |