

Large Home Power Station for Solar TV

RNTS105

Renewit Solar Limited

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

Verify online:

www.lightingglobal.org/products/ri-rnts105

Valid until: May 31, 2021



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

6

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) | |
|-----------------|------------------------|---|---|----------------------------------|
| | | | Used alone ^b | Used in combination ^c |
| | Appliance ^a | Description | | |
| included in kit | Main lighting unit | 3 wired lamps on High setting totaling 310 lumens and 2.1 W. | 86 hours | 9 hours |
| | Wireless lamps | 2 lamps on High setting totaling 270 lumens (2 Ah, 3.7 V battery) | 72 hours | 9 hours |
| | Flashlight | 400 mAh, 3.2 V torch | 480 hours | 9 hours |
| | Fan | 20 cm table fan (5.5 W) | 32 hours | 11 hours |
| | TV | 21" LED TV (14 W) | 13 hours | 4.5 hours |
| | Radio | portable (1.8 Ah, 3.7 V battery) | 860 hours | 6.7 hours |
| sold separately | Mobile phone | Basic phone (3.7 Wh battery) | 35 full charge(s) | 2.2 full charge(s) |

Available daily electrical energy^c (Wh/day) 180

| Performance measure | Brightness setting: 3 lamps on high, 2 wireless lamps on high and flashlight |
|---|--|
| Lighting full battery run time ^d for main unit (hours) | 70 |
| Lighting full battery run time wireless lamp (hours) | 8.7 |
| Lighting full battery run time flashlight (hours) | 7.3 |
| Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product) | 25000 |

^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 |
|---------------|-----------------|--------------------|---------|-------------------|------------------------------------|------------------|------------------|-------------------|--------------------------------|
| Wired lamp | 3 | 2 | high | 100 | 150 | 82 | 6200 | Wide | 96% |
| Wireless lamp | 2 | 2 | high | 130 | 140 | 83 | 6300 | Wide | 92% |
| Flashlight | 1 | 2 | high | 24 | 130 | 82 | 6200 | 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 | | |
|--|--|---|
| LEDs |  UV-free LEDs are used to optimize health and safety as well as efficiency. | |
| PORTS | | |
| 2 | USB 2.0 type A  Mobile phones, radio, and flashlight can be charged and fan may be powered via this port. Adapters are included. | |
| 2 | 12 V Barrel jack  12 V ports to plug in the included TV. | |
| 3 | 6 V Barrel jack  6 V ports to power the three wired lamps included with the product. | |
| 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. |
| | Wireless lamp | Has protection from occasional rain; met with appropriate warning label |
| | Flashlight | Has protection from occasional rain; met with appropriate warning label |
| | Fan | Water ingress protection not tested, meant for indoor use only. |
| | TV | Water ingress protection not tested, meant for indoor use only. |
| | Radio | Has protection from occasional rain; met with appropriate warning label |
| SOLAR DETAILS | | |
| PV module type | Polycrystalline silicon | |
| PV maximum power | 56 watts | |
| BATTERY DETAILS | | |
| Battery replaceability | Not easily replaceable with common tools. | |
| Battery chemistry | Lithium-ion | |
| Battery package type | 18650 x 28 (4S7P) | |
| Battery capacity | 15 Ah | |
| Battery nominal voltage | 14.8 V | |
| Battery status indication | There are four indicators for the battery level, two for PV charging and one for the keypad. | |
| MARKS AND CERTIFICATIONS | | |
| Factory certification | ISO 9001:2015; ISO14001:2015 | |
| PRODUCT DETAILS | | |
| Manufacturer name | Renewit Solar Limited | |
| Product name | Large Home Power Station for Solar TV | |
| Product model / ID number | RNTS105 | |
| Contact information | info@renewit.com | |
| Website | www.renewit.com | |
| Dimensions (entire product in package) | Multiple packages. Contact manufacturer for more information. | |
| Mass | 9915 g | |
| SSS INFORMATION | | |
| Specs sheet expiration date | May 31, 2021 | |
| Quality standards framework version | 2019 | |
| Revision | 2020.01 | |