Power Equation Solar Home Power Station with 3 Lights, Radio and Flashlight

RNTS022

Renewit Solar Limited

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

Verify online: www.lightingglobal.org/products/ri-hpsrf Valid until January 31, 2022



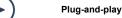
Meets the Lighting Global Pico-PV Quality Standards



Mobile charging



Light point(s)





Run time after a typical day of solar

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

| | | | Chargii | | |
|-----------------|------------------------|---|-------------------------|----------------------------------|--|
| | | | (assuming 5kWh/m²/day) | | |
| | Appliance ^a | Description | Used alone ^b | Used in combination ^c | |
| kit | Main lighting unit | 3 wired lamps on High totaling 330 lumens and 2.8 W power | 8.4 hours | 5.4 hours | |
| included in kit | Radio | portable (990 mAh battery, 3.7 V nominal voltage with a power consumption of 0.16 W while in-use) | 5.1 hours | 1.3 hours | |
| inc | Flashlight | 420 mAh, 24 lumens torch, 3.2 V nominal voltage | 121 hours | 4 hours | |
| sold separately | Mobile phone | Basic phone (3.7 Wh battery) | 77 full charge(s) | 5.4 full charge(s) | |

| Available daily electrical energy ^c (Wh/day) | 22 |
|---|----|
| Available daily electrical energy (Wri/day) | 22 |

| Performance measure | Brightness setting: High | | |
|--|--------------------------|--|--|
| Lighting full battery run time ^d for main unit (hours) | 8.8 | | |
| Lighting full battery run time Flashlight (hours) | 79 | | |
| Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product) | 2600 | | |

^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 | сст ^а | Distribution type | Lumen maintenance ^h |
| Wired bulb | 3 | 2 | High | 110 | 100 | 84 | 6200 | Wide | 100% |
| Flashlight | 1 | 3 | High | 24 | 110 | 83 | 6200 | Wide | 100% |

^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.

^f Color Rendering Index. An index of 100 is equivalent to vieiwing 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

| 1 | USB 2.0 type A | | Mobile phones and radios can be charged. Adapters are included. | | | | |
|--|-----------------|------------|---|--|--|--|--|
| 3 | Barrel jack | | Three 6 V ports available to power light points or appliances | | | | |
| DURABILITY Overall durability a | and workmanshin | | Pass | | | | |
| Durability tests pa | | | Switch test, Drop test, Strain relief test, physical ingress protection. | | | | |
| | | | | | | | |
| | | Main Unit | Water ingress protection not tested, meant for indoor use only. | | | | |
| | | PV module | Has protection from permanent outdoor exposure | | | | |
| Level of water protection | | Wired bulb | Water ingress protection not tested, meant for indoor use only. | | | | |
| | | | Has protection from occasional rain; met with appropriate warning label | | | | |
| | | Radio | Has protection from occasional rain; met with appropriate warning label | | | | |
| SOLAR DETAILS | | | | | | | |
| PV module type | | | Polycrystalline silicon | | | | |
| PV maximum pow | /er | | 10 watts | | | | |
| BATTERY DETAI | ILS | | | | | | |
| Battery replaceabi | ility | | Easily replaceable with common tools; however, the warranty is void if product is open | | | | |
| Battery chemistry | | | Main unit: Lithium Ion | | | | |
| Battery package ty | уре | | Main unit: 4 x 18650 | | | | |
| Battery capacity | | | Main unit: 8.6 Ah | | | | |
| Battery nominal vo | oltage | | Main Unit: 3.7 V | | | | |
| Battery status indication | | | Four indicators for battery state-of-charge, one indicator for charging status on main unflashlight and radio each have one indicator for charging status | | | | |
| MARKS AND CE | RTIFICATIONS | | | | | | |
| Factory certification | on | | ISO 9001:2015; ISO 14001:2015 | | | | |
| PRODUCT DETA | ILS | | | | | | |
| Manufacturer name | | | Renewit Solar Limited | | | | |
| Product name | | | Power Equation Solar Home Power Station with 3 Lights, Radio and Flashlight | | | | |
| Product model / ID number | | | RNTS022 | | | | |
| Contact information | | | richard@renewit.com | | | | |
| Website | | | www.renewit.com | | | | |
| Dimensions (entire product in package) | | | 24 x 34 x 10.5 cm | | | | |
| Mass | | | 2385 g | | | | |
| SS INFORMATION | | | | | | | |
| Specs sheet expiration date | | | January 31, 2022 | | | | |
| Quality standards framework version | | | 2020 | | | | |
| Revision | | | 2020.06 | | | | |