

# Large Home Power Station

RNTS 087  
Renewit Solar Limited

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

Verify online:

[www.lightingglobal.org/products/ri-rnts087](http://www.lightingglobal.org/products/ri-rnts087)

Valid until: July 30, 2019



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

3

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

## PERFORMANCE DETAILS

	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
			Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included in kit	Main lighting unit	3 wired lamps on High setting totaling 310 lumens and 2.1 W.	86 hours	10 hours
	TV	24" LED TV (14 W)	13 hours	5.2 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	35 full charge(s)	2.6 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day) 180

Performance measure	Brightness setting: 3 lamps on high
Lighting full battery run time <sup>d</sup> for main unit (hours)	70
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	27000

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

<sup>b</sup> Without any other loads used during the run time

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Wired lamp	3	2	high	100	150	82	6200	Wide	96%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.




<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> 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, radios, and flashlights can be charged and fans 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.
	TV	Water ingress protection not tested, meant for indoor use only.
	Wireless lamp	Water ingress protection not tested, meant for indoor use only.

**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
Product model / ID number	RNTS 087
Contact information	info@renewit.com
Website	www.renewit.com
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.
Mass	n/a

**SSS INFORMATION**

Specs sheet expiration date	July 30, 2019
Quality standards framework version	2019
Revision	2019.04