

G1 Solar Power Lantern with Phone Charger

RNG1
Renewit Solar Limited

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

Verify online:

www.lightingglobal.org/products/ri-g1spl

Valid until September 30, 2021



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 1-year warranty covering manufacturing defects

PERFORMANCE DETAILS

	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	1 light point on high totaling 140 lumens and 1.5 W power	7.2 hours	3.7 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	1.9 full charge(s)	0.9 full charge(s)

Available daily electrical energy^e (Wh/day)

9

Performance measure

Brightness setting: High

Lighting full battery run time^d for main unit (hours)

11

Total lighting service (lumen-hours/solar-day)
(includes the both main lighting unit and any lights with internal batteries included with the product)

1010

^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
Integrated lamp	1	2	High	140	89	86	6100	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

PORTS

1

USB 2.0 type A

Mobile phones can be charged. Adapters are included.

DURABILITY

Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	Has protection from occasional rain; met with IPX1
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	3.2 watts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry	Lithium-ion
Battery package type	18650
Battery capacity	4 Ah
Battery nominal voltage	3.7 V
Battery status indication	Four LEDs indicate the battery state of charge. One red/green indicator shows charging/full status.

MARKS AND CERTIFICATIONS

Factory certification	ISO 9001, ISO 14001
Safety certification	CE
Other certification	IEC 60598

PRODUCT DETAILS

Manufacturer name	Renewit Solar Limited
Product name	G1 Solar Power Lantern with Phone Charger
Product model / ID number	RNG1
Contact information	richard@renewit.com
Website	www.renewit.com
Dimensions (entire product in package)	17.4 x 29 x 17 cm
Mass	1323 g

SSS INFORMATION

Specs sheet expiration date	September 30, 2021
Quality standards framework version	2020
Revision	2020.04