

Solar Panda Home Kit

Solar Panda Corporation

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

Verify online:

www.lightingglobal.org/products/panda-home

Valid until December 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 control unit, solar panel and light bulbs and 1-year warranty for the radio, torch and portable lantern.

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	4 wired lanterns on high totaling 460 lm and 4 W	5.1 hours	2.8 hours
	Flashlight	1900 mAh, 81 lumens torch, 3.7 V nominal voltage	12 hours	3.2 hours
	Portable Lantern	600 mAh, 63 lumens torch, 3.2 V nominal voltage	31 hours	3.2 hours
	Radio	portable (1000 mAh battery, 3.7 V nominal voltage), with a power consumption of 0.5 W while in-use)	44 hours	2.4 hours
sold separately	Mobile Phone	Basic phone (3.7 Wh battery)	6.9 full charge(s)	0.8 full charge(s)

Available daily electrical energy^c (Wh/day)

22

Performance measure	Brightness setting: 4 wired lanterns, flashlight and portable lantern on high
Lighting full battery run time ^d for main unit (hours)	5.1
Lighting full battery run time flashlight (hours)	8.1
Lighting full battery run time portable lantern (hours)	27
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	2100

^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 Lantern	4	2	High	120	120	83	6600	Wide	100%
Flashlight	1	2	High	81	57	69	19000	Narrow	97%
Portable Lantern	1	2	High	63	160	83	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, torch, portable lantern and radio can be charged. Adapters are included.
4	Barrel jack		6.8 V ports available for light points

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 with IPX1 and an appropriate warning label
	Radio	Has protection from occasional rain; met with appropriate warning label
	Portable Lantern	Has protection from occasional rain; met with appropriate warning label

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	11 watts

BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	26650
Battery capacity	3.5 Ah
Battery nominal voltage	6.4 V (main battery)
Battery status indication	6 LEDs show the battery charge level

MARKS AND CERTIFICATIONS	
Factory certification	ISO9001:2015

PRODUCT DETAILS	
Manufacturer name	Solar Panda Corporation
Product name	Solar Panda Home Kit
Product model / ID number	--
Contact information	andy@solarpanda.com
Website	www.solarpanda.com
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more details.
Mass	Multiple packages. Contact manufacturer for more details.

SSS INFORMATION	
Specs sheet expiration date	December 31, 2021
Quality standards framework version	2019
Revision	2019.12