Solar Panda Home Kit

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Solar Panda Corporation

Results based on test procedures detailed in IEC TS 62257-9-5

✓ **Meets the Lighting Global Solar Home System Kit Quality Standards**

📱 **Mobile charging**

6 **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

2-year warranty is for power system and 1-year warranty is for accessories.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	3 wired lanterns and 1 tubelight on (high) totaling 680 lumens and 4.9 W power	7.4 hours	4.3 hours
yes	included	Torch	81 lumens torch, (Li-ion, battery: 1.9 Ah, 3.6 V)	18 hours	4.8 hours
yes	included	Portable Lantern	63 lumens portable lantern, (LiFePO4 battery: 0.6 Ah, 3.2 V)	60 hours	5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	10 full charge(s)	1.2 full charge(s)

Available daily electrical energy[c] (Wh/day)	38

Performance measure	brightness setting: 3 wired lanterns, torch, tubelight, and portable lantern on high
Lighting full battery run time[d] for main unit (hours)	7.4
Lighting full battery run time of the torch powered by torch battery (hours)	18
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	5740

[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	3	2	High	470	150	85	7200	Wide	100%
Portable lantern	1	2	High	63	160	83	6100	Wide	100%
Tubelight	1	2	High	210	130	83	6600	Wide	100%
Torch	1	2	High	81	57	69	19000	Narrow	97%

[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 vieiwing 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			
4	**Barrel jack**		9.5 V lamp ports
1	**Proprietary 2-pin connector**		The port has a proprietary 2-pin connector and the product includes an adapter with micro-USB plug, a proprietary 2-pin plug for the torch and radio, a Nokia barrel plug, one cylindrical plug for portable lantern and one cylindrical plug for phones.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from occasional rain; met with 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	20 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	32700
Battery capacity	6.4 Ah
Battery nominal voltage	6.4 V
Battery status indication	one screen

PRODUCT DETAILS	
Manufacturer name	Solar Panda Corporation
Product name	Solar Panda Home Kit
Contact information	andy@solarpanda.com
Website	www.solarpanda.com
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.
Mass	3430 g

SSS INFORMATION	
Specs sheet expiration date	April 30, 2023
Quality standards framework version	2021
Revision	2021.03