

# Solar Home System ZSPD-LFP0100B40

ZSPD-LFP0100B40

Zigong Xingchuan Photoelectric Co., Ltd

Verify online:

<https://data.verasol.org/products/sek/zon-zspd>

Valid until: January 31, 2024

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8 for Size B Kits



Mobile charging

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering entire system and included appliances, including free maintenance service for manufacturing defects and normal wear and tear.

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	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>
yes	included	Main lighting unit	4 light points totaling 2040 lumens and 27 W power	17 hours	7 hours
no	not included	Fan	16" table fan (15 W max power)	24 hours	8.8 hours
no	not included	Television	22" TV (18 W power while in use)	20 hours	3.5 hours
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use]	740 hours	5.3 hours
no	not included	Torch	2.25 W flashlight	750 hours	7 hours
no	not included	Smartphone	Smart phone (5.7 Wh battery)	40 hours	1.8 hours

Available daily electrical energy <sup>c</sup> (Wh/day)	350
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Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> for main unit (hours)	26
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	34700

<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>a</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
5 W Lamp	4	1	On	510	96	83	6500	Wide	100%

<sup>a</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

PORTS		
2	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
8	Barrel jack	 All barrel jack ports are 12V and intended for powering lamps, table/standing fan, and TV.
1	Cigarette lighter	 12 V port for powering appliances
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch 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.
	5 W lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		97 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		IFR20650
Battery capacity		43 Ah
Battery nominal voltage		12.8 V
Battery status indication		One indicator for PV charging, three indicators for battery state of charge and one indicator for load status
PRODUCT DETAILS		
Manufacturer name		Zigong Xingchuan Photoelectric Co., Ltd
Product name		Solar Home System ZSPD-LFP0100B40
Product model / ID number		ZSPD-LFP0100B40
Contact information		L_yongchun@zonergy.com
Website		http://www.zonergy.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		Multiple packages. Contact manufacturer for more information.
SSS INFORMATION		
Specs sheet expiration date		January 31, 2024
Revision		2022.01