

JBX50 Solar Home System

JBX50

Brand name: JOBEL

Verify online:

<https://data.verasol.org/products/sek/xec-jbx50> Valid until April 30, 2027

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



Meets the Requirements in IEC TS 62257-9-8:2020 for Size B Kits



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

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 light points on high totaling 990 lumens and 7.5 W power	6.1 hours	1 hours
no	not included	Fan	Small table fan (16" or smaller diameter, 10 W power)	1.9 hours	1.3 hours
no	not included	Television	16" or smaller (diagonal) (18 W power consumption while in use)	3 hours	0.5 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	6.9 full charge(s)	0.25 full charge(s)

Available daily electrical energy ^c (Wh/day)	54
---------------------------------------------------------	----

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	6.1
Total lighting service (lumen-hours / solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6040

^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 name	Light output (lm)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Fixed Focus Lamp	3	3	High	330	2.5	130	82	5200	Wide	99%

^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		
2	USB 2.0 type A	 Smart phones can be charged. Adapters are included.
3	Barrel jack	 12 V ports available to power light points.
1	USB Type C	 Smart phones can be charged.
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
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		16 W
PV rated power		16 W
PV open-circuit voltage (V _{oc})		22.5 V
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
Battery package type		26650
Battery capacity		3.9 Ah
Rated Battery capacity		4 Ah
Battery nominal voltage		12.8 V
Battery status / other indicator lights		One indicator for power status, one indicator for charge rate, four indicators for battery level.
PRODUCT DETAILS		
Company name		Xiamen E-Calling Electronic Co., Ltd
Brand Name		jOBEL
Product name		JBX50 Solar Home System
Product model / ID number		JBX50
Contact information		peter@e-calling.com
Website		www.jobel-tech.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
SSS INFORMATION		
Specs sheet expiration date		April 30, 2027
Revision		2025.04