

# Yellowbox Solar Home System

K088T232XYG

Brand name: Solar Run

Verify online:

<https://data.verasol.org/products/sek/ssr-k088t2>

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

Valid until: April 30, 2025



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



Mobile charging

PAYG

Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering the system for the main components and torch. A 1-year warranty for the radio.

## 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 on high totaling 650 lumens and 6.2 W power	5.3 hours	3.6 hours
yes	included	Torch	59 lm torch (LiFePO4 battery: 0.5 Ah, 3.2 V)	35 hours	3.8 hours
yes	included	Radio	Portable radio (Li-ion battery: 2 Ah, 3.7 V), with a power consumption of 0.33 W while in use	81 hours	2.8 hours
no	not included	Smart Phone	Smart phone (5.7 Wh battery)	4.4 full charge(s)	0.94 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	32
---	----

Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.3
Lighting full battery run time of the torch powered by torch battery (hours)	34
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3300

<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)	Power consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
2 W Lamp	3	1	High	190	1.8	120	82	6600	Wide	101%
Integrated light in main unit	1	1	High	77	0.83	81	74	7200	Wide	not tested
Torch	1	2	Torch	59	0.59	100	73	6500	Narrow	97%

<sup>e</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, torch, and radios can be charged. Adapters are included
5	Barrel jack	 6 V lamp ports to power light points.
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	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from frequent rain; met IPX3
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		12 watts
PV rated power		12 watts
PV nominal voltage		10.3 volts
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		32700
Battery capacity		6 Ah
Battery nominal voltage		6.4 V
Battery status/ other indicator lights		One indicator for code-entry, one indicator for credit, one indicator for PV charging, one indicator for battery state.
PRODUCT DETAILS		
Company name		Shenzhen Solar Run Energy Co., Ltd.
Brand Name		Solar Run
Product name		Yellowbox Solar Home System
Product model / ID number		K088T232XYG
Contact information		info@solarunoffgrid.com
Website		www.solarunoffgrid.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		April 30, 2025
Revision		2024.07