

# ZOLA FLEX PLUS 32 with radio

ZOLA Electric

Verify online:

<https://data.verasol.org/products/sek/zle-flex32r>

Valid until: July 31, 2023

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



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

5

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

5-year warranty for power box, PV and lights, 1-year warranty for appliances.

## 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	5 light points on full totaling 830 lumens and 6.2 W power	28 hours	16 hours
yes	included	Television	32" diagonal (13 W power consumption while in-use)	20 hours	8.4 hours
yes	included	Radio	portable Li-ion battery: 0.65 Ah, 3.7 V, with a power consumption of 0.35 W while in-use	380 hours	13 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	35 full charge(s)	4.4 full charge(s)

Available daily electrical energy <sup>e</sup> (Wh/day)	230
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Performance measure	Brightness setting: Full
Lighting full battery run time <sup>d</sup> for main unit (hours)	28
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	23200

<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)	CR <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED bulb	4	2	Full	130	140	85	5000	Wide	100%
Tubelight	1	2	Full	300	130	86	5100	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 phone can be charged. Adapter not included.
7	Barrel jack	 3 of the ports are for powering light points, 3 are for powering appliances and one is for powering a security lamp.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, both the LED and tubelight met IP5X
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	LED bulb	Has protection from permanent outdoor exposure; met IPX5
	Tubelight	Has protection from permanent outdoor exposure; met IPX5
	Radio	Has protection from occasional rain; met with appropriate warning label
	32" TV	Water ingress protection not tested, meant for indoor use only.
	Remote Control	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		77 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		18650
Battery capacity		18 Ah
Battery nominal voltage		12.8 V
Battery status indication		Six LEDs for battery state of charge
PRODUCT DETAILS		
Manufacturer name		ZOLA Electric
Product name		ZOLA FLEX PLUS 32 with radio
Contact information		<a href="mailto:hannah.johnson@zolaelectric.com">hannah.johnson@zolaelectric.com</a>
Website		<a href="http://www.zolaelectric.com">www.zolaelectric.com</a>
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
SSS INFORMATION		
Specs sheet expiration date		July 31, 2023
Revision		2021.08