

# Energy Station Next

OffgridSun

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

Verify online:

<https://data.verasol.org/products/sek/os-esn>

Valid until: September 30, 2023



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



Mobile charging

3

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system.

## 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	3 light points on "On" totaling 500 lumens and 4.2 W power	7.5 hours	6.3 hours
yes	included	Radio	portable (Li-ion battery: 1.5 Ah, 3.7 V), with a power consumption of 0.45 W while in use	120 hours	5.7 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	9.7 full charge(s)	1.9 full charge(s)

Available daily electrical energy<sup>e</sup> (Wh/day) 37

Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> for main unit (hours)	7.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3750

<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>g</sup> (lm/W)	CR <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
1.6 W LED light	3	1	On	170	120	74	7370	Wide	100%

<sup>g</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 and radios can be charged. Adapters are included.
3	Barrel jack	 6.4 V ports available to charge devices and power appliances and light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test(radio only), 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
	Radio	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		16 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		32650
Battery capacity		6 Ah
Battery nominal voltage		6.4 V
Battery status indication		4 indicators that show the battery level and charging condition.
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015
PRODUCT DETAILS		
Manufacturer name		OffgridSun
Product name		Energy Station Next
Contact information		n.baggio@offgridsun.com
Website		www.offgridsun.com
Dimensions (entire product in package)		21 x 14 x 12 cm
Mass		1250 g
SSS INFORMATION		
Specs sheet expiration date		September 30, 2023
Revision		2021.09