

Energy Station Next

Brand name: OffgridSun

Verify online:
<https://data.verasol.org/products/sek/os-esn>
Valid until: February 28, 2026

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 3-year warranty covering manufacturing defects in the system for the PV module, control box, cables, lights, and battery. A 1-year warranty for the non-lighting appliances and USB adapters.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m²/day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 light points on "On" totaling 690 lumens and 4.8 W power	6.8 hours	5.9 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	86 hours	4.9 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	9.4 full charge(s)	1.6 full charge(s)

Available daily electrical energy ^c (Wh/day)	38
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Performance measure	Brightness setting: 3 lights on "On"
Lighting full battery run time ^d for main unit (hours)	6.8
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4690

^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	Light output (lm)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
1.7 W lamp	3	1	On	230	1.6	140	81	6500	Wide	100%

^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	 Mobile phones and radios can be charged. Adapters are included.
3	Barrel jack	 6.4 V ports available 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	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
	1.7 W lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		16 watts
PV rated power		15 watts
PV nominal voltage		9 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		4 indicators that show the battery level and charging condition.
PRODUCT DETAILS		
Company name		OffgridSun
Brand Name		OffgridSun
Product name		Energy Station Next
Product model / ID number		--
Contact information		n.baggio@offgridsun.com
Website		www.offgridsun.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		February 28, 2026
Revision		2025.10