

Energy Station Plus

OffgridSun

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

www.lightingglobal.org/products/os-esp

Valid until: October 31, 2021



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 1-year warranty covering manufacturing defects.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
	Appliance ^a	Description	Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	3 light points on, totaling 330 lumens and 2.5 W power	10.5 hours	7.1 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	5.4 full charge(s)	1.8 full charge(s)

Available daily electrical energy^e (Wh/day)

25

Performance measure	Brightness setting: 3 Bulbs On
Lighting full battery run time ^d for main unit (hours)	13.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	3500

^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)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED Bulb	3	1	On	110	130	75	7300	Wide	101%

^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 can be charged. Adapters are included.
3	Barrel jack	 3 ports for powering light points
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, physical ingress protection.
Level of water protection	Main Lighting Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		7.9 watts
BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		32650 2S1P
Battery capacity		5900 Ah
Battery nominal voltage		6.4 V
Battery status indication		Four indicators show the battery level and charging condition
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015
PRODUCT DETAILS		
Manufacturer name		OffgridSun
Product name		Energy Station Plus
Product model / ID number		--
Contact information		n.baggio@offgridsun.com
Website		www.offgridsun.com
Dimensions (entire product in package)		36.5 x 18.7 x 7.8 cm
Mass		1900 g
SSS INFORMATION		
Specs sheet expiration date		October 31, 2021
Quality standards framework version		2019
Revision		2019.10