

Pico Solar Home System 3000

fosera Group

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

Verify online:

www.lightingglobal.org/products/fs-pshs3000

Valid until: May 31, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering defects in material or workmanship in the product and battery.

PERFORMANCE DETAILS

	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	1 light point on High totaling 97 lumens and 0.71 W power	13 hours	6.0 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	2.2 full charge(s)	1.5 full charge(s)

Available daily electrical energy^c (Wh/day) 10

Performance measure

Brightness setting: High

Lighting full battery run time^d for main unit (hours)

13

Total lighting service (lumen-hours/solar-day)

1300

(includes the both main lighting unit and any lights with internal batteries included with the product)

^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
Lamp 100	1	2	High	97	140	87	5300	Wide	98%
			Low	39	140				--

^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

SPECIAL FEATURES

Optional radio	★	FM/MW/SW band radio with AUX-IN input
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LEDs	★	UV-free LEDs are used to optimize health and safety as well as efficiency.
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PORTS

1	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are not included.
4	Barrel jack		Four 3.2 V ports available to power lights.

DURABILITY

Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection.
Level of water protection	Main 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	3.8 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
Battery package type	custom
Battery capacity	3100 Ah
Battery nominal voltage	3.2 V
Battery status indication	Four indicators display the battery's state of charge.

PRODUCT DETAILS

Manufacturer name	fosera Group
Product name	Pico Solar Home System 3000
Product model / ID number	--
Contact information	info@fosera.com
Website	www.fosera.com
Dimensions (entire product in package)	23.5 x 22.5 x 16.5 cm
Mass	1240 g

SSS INFORMATION

Specs sheet expiration date	May 31, 2022
Quality standards framework version	2020
Revision	2020.05