

Pico Solar Home System 3000

Fosera Group

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

Verify online:

<https://data.verasol.org/products/sek/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) (includes the both main lighting unit and any lights with internal batteries included with the product) | 1300 |

^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 |
|----------------|---|---------------------------------------|

| | | |
|------|---|--|
| LEDs | ★ | UV-free LEDs are used to optimize health and safety as well as efficiency. |
|------|---|--|

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 |