

Lighting Global Standardized Specifications Book

Manufacturer: fosera Group

Component Family Name: Pico Solar Home System (PSHS)

**Date of Standardized
Specifications Book Expiration:** May 31, 2022

Verify Online: <http://www.lightingglobal.org/products/fs-pshs>

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This Lighting Global Standardized Specifications Book presents a **component-level Standardized Specifications Sheet** listing the available components in the product family by component type, each individual component's performance rating, and performance results for each component tested according to the latest version of the Quality Test Method (QTM) in IEC 62257-9-5. Following the component-level Standardized Specifications Sheet is a **list of the systems** covered by this Specifications Book that use combinations of these components.

NOTICE: Systems or kits developed using components from the component family will each perform differently and have not all been evaluated on a system-level basis. All systems listed in this Specifications Book are regarded to have passed the applicable Lighting Global Quality Standards.

Quality Standards Framework Version: 2020

Revision: 2020.04

Component-Level Standardized Specifications Sheet

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Pico Solar Home System (PSHS)

Battery / Control Box

| Name / Model Number | Battery Chemistry | Nominal Voltage (V) | Battery Capacity Rating (mAh) | Measured Battery Capacity (mAh) |
|---------------------|------------------------|---------------------|-------------------------------|---------------------------------|
| 3000 mAh battery | Lithium iron phosphate | 3.2 | 3000 | 3100 |
| 4500 mAh battery | Lithium iron phosphate | 3.2 | 4500 | not tested |
| 7500 mAh battery | Lithium iron phosphate | 3.2 | 7500 | not tested |
| 10500 mAh battery | Lithium iron phosphate | 3.2 | 10500 | 10700 |

PV Module

| Name / Model Number | Peak Power at STC Rating (W) | Measured Peak Power at STC (W) |
|---------------------|------------------------------|--------------------------------|
| 4 Wp PV module | 4 | 3.8 |
| 6 Wp PV Module | 6 | not tested |
| 10 Wp PV module | 10 | 9 |

Light Sources*

| Name / Model Number | Luminous Flux Rating (lm) | | Measured Luminous Flux (lm) | | Measured Lamp Efficacy (lm/W) | |
|---------------------|---------------------------|-----|-----------------------------|-----|-------------------------------|-----|
| | High | Low | High | Low | High | Low |
| Lamp 100 | 100 | - | 96 | - | 130 | - |
| Lamp 200 | 200 | - | 200 | - | 140 | - |

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in Edition 4 of IEC 62257-9-5. However, based on the satisfactory performance of the tested components in the family, the components that were not tested are regarded to have passed the applicable Lighting Global Quality Standards. In addition, all tested components passed an internal inspection, the full array of applicable QTM durability tests, as well as ingress protection testing (where applicable).

*Light points and appliances may perform differently when used with different systems.

List of Covered Systems

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Pico Solar Home System (PSHS) Family

| System Name | Number of each component included in each system | | | | | | | | | |
|-------------------|--|----------|------------------|------------------|------------------|-------------------|----------------|----------------|-----------------|---------------|
| | Lamp 100 | Lamp 200 | 3000 mAh battery | 4500 mAh battery | 7500 mAh battery | 10500 mAh battery | 4 Wp PV module | 6 Wp PV module | 10 Wp PV module | Phone Charger |
| PSHS 3000* | 1 | | 1 | | | | 1 | | | 1 |
| PSHS 10500 | 2 | 2 | | | | 1 | | | 1 | 1 |
| PSHS 7500 | | 3 | | | 1 | | | | 1 | 1 |
| PSHS 4500 | 3 | | | 1 | | | | 1 | | 1 |

*Tested as full system. Individual SSS available on Lighting Global website.

NOTICE:

Only the Pico Solar Home System 3000 was fully tested as a system according to the Quality Test Method (QTM) in IEC 62257-9-5. Individual Standardized Specifications Sheet (SSS) that report system-level performance is available for the Pico Solar Home System 3000 at www.lightingglobal.org/products. Systems that were not tested, but that were developed using components from the component family will perform differently than the system(s) shown in the individual system-level SSS. All systems listed above are regarded to have passed the applicable Lighting Global Quality Standards.

Unless otherwise noted, the following information applies to all listed systems and components:

Warranty Information

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

Special Features

| | |
|----------------|---------------------------------------|
| Optional radio | FM/MW/SW band radio with AUX-IN input |
|----------------|---------------------------------------|

Marks and Certifications

| | |
|---------------------|----|
| Other certification | CE |
|---------------------|----|