

# VeraSol Standardized Specifications Book

**Manufacturer:** PEG Africa

**Component Family Name:** PEG Life Family

**Date of Standardized Specifications Book Expiration:** March 31, 2024

**Verify Online:** <https://data.verasol.org/products/sek/pa-plfamily>

**Contact Information:** [info@pegafrica.com](mailto:info@pegafrica.com)

**Website:** [www.pegafrica.com](http://www.pegafrica.com)



This VeraSol 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 Edition 4 of 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 meet the requirements in IEC 62257-9-8.

**Revision:** 2022.03

# Component-Level Standardized Specifications Sheet

PEG Africa

PEG Life Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
PL24 main unit with 12Ah battery	Lithium iron phosphate	12.8	12	12
PL32 main unit with 18Ah battery	Lithium iron phosphate	12.8	18	18
Torch battery	Lithium-ion	3.7	2.2	2.3

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
PL24 PV module	50	50
PL32 PV module	75	79

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	High	High	High
Bulb lamp	200	230	120
Tube lamp	600	650	120
Torch	80	82	63

## Appliances\*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
24" TV	--	12	Not tested	--	Not tested
32" TV	12 W power consumption while in-use	15	12	--	--
Radio	Li-ion battery: 1.0 Ah, 3.7 V	1.5	0.28	1.2	1

**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 requirements in IEC 62257-9-8. 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

PEG Africa

PEG Life Family

Number of each component included in each system

System Name	Bulb Lamp	Tube Lamp	50 W PV	75 W PV	Main unit with 12Ah Battery	Main unit with 18Ah Battery	Torch	Radio	24" TV	32" TV	USB cable
PEG Life 24	4	1	1		1		1	1	1		1
PEG Life 32**	3	2		1		1	1	1		1	2

\*\*Tested as full systems. Individual SSS available on VeraSol website.

## NOTICE:

Only the PEG Life 32 was fully tested as a system according to Edition 4 of IEC 62257-9-5. An individual Standardized Specifications Sheet (SSS) that reports system-level performance is available for the PEG Life 32 at <https://data.verasol.org/products/sek/>

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 or the requirements in IEC 62257-9-8.

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

## Warranty Information

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for the torch, radio, and phone charger.

# Available Daily Electrical Energy and Port Information

PEG Africa

PEG Life Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
PEG Life 24	140	yes
PEG Life 32**	220	yes

\*\*Tested as full systems. Individual SSS available on VeraSol website.

## **NOTICE:**

The available daily electrical energy (Wh/day) is calculated for fully tested systems following the energy service calculations as described in IEC/TS 62257-9-5 Ed. 4. For products in a family that are not tested as a full system, estimations of available daily electrical energy (Wh/day) are calculated according to an alternative method using data from the test reports of fully-tested products and components. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.