

VeraSol

Standardized Specifications Book

Manufacturer: Ekotek Energy

Component Family Name: Paygo Solar Home System family

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Book Expiration:

Verify Online: <https://data.verasol.org/products/sek/ekt-pgmfamily>

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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 passed the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8.

Quality Standards Framework Version: 2020

Revision: 2021.08

Component-Level Standardized Specifications Sheet

Ekotek Energy

Paygo Solar Home System family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
50 Wh battery	Lithium iron phosphate	12.8	4	5.3
100 Wh battery	Lithium iron phosphate	12.8	8	not tested
150 Wh battery	Lithium iron phosphate	12.8	12	11.6

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
20 W PV module	20	20
30 W PV module	30	not tested
50 W PV module	50	50

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	or	or	or
1 W Lamp	110	140	130
3 W Lamp	300	350	110

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 or the 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

Ekotek Energy

Paygo Solar Home System family

System Name	Number of each component included in each system							
	1 W lamp	3 W lamp	50 Wh battery	100 Wh battery	150 Wh battery	20 W PV module	30 W PV module	50 W PV module
PAYGO 50 BASE (EK-PG50)	4	--	1	--	--	1	--	--
PAYGO 100 PLUS (EK-PG100)	--	4	--	1	--	--	1	--
PAYGO 150 MAX (EK-PG150) **	--	4	--	--	1	--	--	1

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

NOTICE:

Only the Paygo 150 Max Solar Home System kit was fully tested as systems according to Edition 4 of IEC 62257-9-5. A Standardized Specifications Sheet (SSS) that reports system-level performance is available for the Paygo 150 Max Solar Home System kit at <https://data.verasol.org/products/sek/ekt-pgm150family>. 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 main unit, battery, lighting and lighting accessories, and PV module. A 1-year warranty covering manufacturing defects in any other accessories or appliances.

Available Daily Electrical Energy and Port Information

Ekotek Energy

Paygo Solar Home System family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
PAYGO 150 MAX (EK-PG150) **	156	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.