

VeraSol

Standardized Specifications Book

Manufacturer: Shenzhen Power-Solution Ind Co., Ltd

Component Family Name: Dawn Light Family

Date of Standardized Specifications Book Expiration: January 31, 2024

Verify Online: <https://data.verasol.org/products/sek/sps-dlfamily>

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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.

Revision: 2022.01

Component-Level Standardized Specifications Sheet

Shenzhen Power-Solution Ind Co., Ltd

Dawn Light Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
6 Ah Main Unit battery	Lithium iron phosphate	12.8	6	5.7
12 Ah Main Unit battery	Lithium iron phosphate	12.8	12	not tested
18 Ah Main Unit battery	Lithium iron phosphate	12.8	18	17.7

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
20 W PV Module	20	21
30 W PV Module	30	not tested
40 W PV Module	40	not tested
50 W PV Module	50	52

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	NO	NO	NO
3 W Lamp	360	420	150

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 met 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

Shenzhen Power-Solution Ind Co., Ltd

Dawn Light Family

System Name	Number of each component included in each system							
	6 Ah Main Unit	12 Ah Main Unit	18 Ah Main Unit	3 W Bulb	20 W PV Module	30 W PV Module	40 W PV Module	50 W PV Module
K0303**	1	--	--	3	1	--	--	--
K030A	1	--	--	3	1	--	--	--
K030B	--	1	--	3	--	1	--	--
K030C	--	1	--	3	--	--	1	--
K030D	--	--	1	3	--	--	1	--
K030E	--	1	--	3	--	--	--	1
K030F	--	--	1	3	--	--	--	1

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

NOTICE:

Only the Dawn Light K0303 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 Dawn Light K0303 at <https://data.verasol.org/products/sek/sps-dl>. 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 met the requirements in IEC 62257-9-8.

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

Warranty Information

Two year warranty on all kits and components. Kits sold in Rwanda have a 3-year warranty.

Available Daily Electrical Energy and Port Information

Shenzhen Power-Solution Ind Co., Ltd

Dawn Light Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
K0303**	74	yes
K030A	72	yes
K030B	100	yes
K030C	140	yes
K030D	140	yes
K030E	170	yes
K030F	180	yes

**Tested as full system. 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.