

VeraSol

Standardized Specifications Book

Company Name: d.light design Ltd.

Brand Name: d.light

Component Family Name: SHS Family

Date of Standardized Specifications Book Expiration: March 31, 2026

Verify Online: <https://data.verasol.org/products/sek/dl-shsfamily>

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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 IEC TS 62257-9-8.

Quality Standards Framework Version: 2024

Revision: 2025.07

Component-Level Standardized Specifications Sheet

d.light design Ltd.

SHS Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
10 Ah LFP battery	Lithium iron phosphate	12.8	10000	10000
12 Ah LFP battery	Lithium iron phosphate	12.8	12000	12000
18 Ah battery (X2800)	Lithium iron phosphate	12.8	18000	17000
18 Ah battery (X3000 Pro)	Lithium iron phosphate	12.8	18000	19000
Radio Battery	Lithium ion	3.7	1000	1000
Torch Battery	Lithium ion	3.7	2000	2000

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
40 W Polycrystalline PV module (SP406)	40	40
50 W PV module (SP506)	50	Not Tested
80 W Polycrystalline PV module (SP806)	80	80
80 W Monocrystalline PV module (SP80601)	80	73
120 W Polycrystalline PV module (SP1206)	120	110

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
Hanging Lamps	200	--	--	230	--	--	110	--	--
Tubelight (600 lm)	600	--	--	630	--	--	110	--	--
Torch	75	--	--	88	--	--	68	--	--
Security light	200	--	--	230	--	--	110	--	--
Tubelight (400 lm)	400	--	--	450	--	--	130	--	--

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Radio (SR10 and SR20)	Portable (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.39 W while in-use.	--	0.3	1000	1000
Fan (SF50)	16" stand fan (12 V, 8.4 W power on high)	9	8.4	--	--
Torch	88 lumens torch (Li-ion battery: 1.8 Ah, 3.7 V)	--	0.34	2000	2000

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

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 IEC TS 62257-9-8:2020. 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).

List of Covered Systems

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SHS Family

System Name	Number of components included in each system															
	Hanging Lamp	Tubelight (600 lm)	Tubelight (400 lm)	40 W Polycrystalline PV module	50 W PV module	80 W Polycrystalline PV module	80 W Monocrystalline PV module	120 W Polycrystalline PV module	10 Ah main unit	12 Ah main unit	18 Ah main unit (X2800)	18 Ah main unit (X3000 Pro)	Radio	Fan	Torch	Security light
X850 plus and X1000° **	4	1	--	1	--	--	--	--	1	--	--	--	1	--	1	--
X1200°	2	3	--	1	--	--	--	--	1	--	--	--	1	--	2	--
X2000°	4	1	--	--	--	1	--	--	--	1	--	--	1	--	1	--
X1000 Neo°	4	1	--	1	--	--	--	--	1	--	--	--	--	--	--	--
X1000V°	4	1	--	1	--	--	--	--	1	--	--	--	1	0-1	1	--
X2000V°	4	1	--	--	--	1	--	--	--	1	--	--	1	0-1	1	--
X1000 Pro° **	3	--	1	1	--	--	--	--	1	--	--	--	--	--	--	1
X1050 Pro°	3	--	1	--	1	--	--	--	1	--	--	--	--	--	--	1
X2000 Pro°	3	--	2	--	--	1	--	--	--	1	--	--	1	--	1	1
X2800° **	3	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--
X3000 Pro°	2	--	2	--	--	--	--	1	--	--	--	1	1	--	1	2

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

°Kit has PAYG function

NOTICE:

Only the kits denoted with ** were tested as full systems according to Edition 4 of IEC 62257-9-5 and passed IEC 62257-9-8 standards. An Individual Standardized Specification Sheet (SSS) that reports system-level performance is available for these systems at VeraSol.org. 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 IEC 62257-9-8.

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

Warranty Information

A 2-year warranty with the exception of the following for which the warranty is 1 year: radio, and torch.

Available Daily Electrical Energy and Port Information

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SHS Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
X850 plus and X1000^{**}	140	yes
X1200[°]	140	yes
X2000[°]	160	yes
X1000 Neo[°]	140	yes
X1000V[°]	140	yes
X2000V[°]	160	yes
X1000 Pro^{°**}	140	yes
X1050 Pro[°]	150	yes
X2000 Pro[°]	160	yes
X2800^{°**}	260	yes

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

[°]Kit has PAYG function

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.