

VeraSol Standardized Specifications Book

Company Name: d.light design Ltd

Brand Name: d.light

Component Family Name: D1XX Family

Date of Standardized Specifications Book Expiration: March 31, 2026

Verify Online: <https://data.verasol.org/products/sek/dl-d1xxfamily>

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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: 2025

Revision: 2025.02

Component-Level Standardized Specifications Sheet

d.light Design Ltd
D1XX Family

Battery / Control Box				
Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
10 Ah Power Pack	Lithium iron phosphate	3.2	10000	10900
5 Ah Power Pack	Lithium iron phosphate	3.2	5000	5060
FM Radio (SR11)	Lithium ion	3.7	600	640
AM/FM Radio (SR21)	Lithium ion	3.7	600	640
Torch	Lithium ion	3.7	2000	1900

PV Module		
Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
5.7 W Monocrystalline PV module (SP65)	5.7	5.6
9 W Polycrystalline PV module	9	7.8
10 W Polycrystalline PV module	10	Not tested
12 W Polycrystalline PV module	12	10
15 W Polycrystalline PV module (SP156)	15	15

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
Bulb (8m)	120	--	--	120	--	--	120	--	--
Tube light (4m)	220	50	35	250	--	30	120	--	--
Tube light (8m)	220	--	--	250	--	--	--	--	--
Torch	75	--	--	88	--	22	59	--	62

Appliances*					
Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Radio (SR11 and SR21)	Portable radio with internal battery; charges via USB	--	0.3	600	640
Torch	88 lm torch (Li-ion battery: 1.9 Ah, 3.7 V)	--	1.3	2000	1900

*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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	Number of each component included in each system												
System Name	10 Ah Power Pack	5 Ah Power Pack	Bulb (8m)	Tube Light (4m)	Tube Light (8m)	5.7 W PV module	9 W PV module	10 W PV module	12 W PV module	15 W PV module	Torch	FM Radio (SR11)	AM/FM Radio (SR21)
D10 ° **	--	1	--	--	2	1	--	--	--	--	--	--	--
D100R °	1	--	2	1	--	--	1	--	--	--	--	--	--
D115R °	1	--	2	1	--	--	--	--	--	1	--	--	--
D100 †	1	--	2	1	--	--	1	--	--	--	--	--	--
D150 †	1	--	2	1	--	--	--	1	--	--	1	0-1	0-1
D180 °	1	--	2	1	--	--	--	--	1	--	1	0-1	0-1
D200 ° **	1	--	2	1	1	--	--	--	1	--	1	1	--
D200 (optional radio) °	1	--	2	1	1	--	--	--	1	--	1	0-1	0-1
X50 °	1	--	2	1	--	--	1	--	--	--	--	--	--
X100 °	1	--	2	1	--	--	1	--	--	--	--	0-1	0-1
X150 °	1	--	3	1	--	--	--	--	1	--	1	0-1	0-1

**Tested as full systems. Individual SSS available on VeraSol website.
†Kit is available with and without PAYG feature
°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

2-year warranty for kits, except the D100R and D115R which has a 3-year warranty. 1-year warranty for radios and torch.

Available Daily Electrical Energy and Port Information

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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
D10**	13	yes
D100R	28	yes
D200**	28	yes
D115R	36	yes

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

†Kit is available with and without PAYG feature

°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.