

VeraSol

Standardized Specifications Book

Manufacturer: Shenzhen Solar Run Energy Co. Ltd.

Component Family Name: WeLite Family

Date of Standardized Specifications Book Expiration: December 31, 2024

Verify Online: <https://data.verasol.org/products/sek/ssr-welitefamily>

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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: 2023

Revision: 2023.06

Component-Level Standardized Specifications Sheet

Shenzhen Solar Run Energy Co. Ltd.

WeLite Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Integrated Lantern A	Lithium iron phosphate	3.2	6000	5900
Integrated Lantern B	Lithium iron phosphate	3.2	3300	3400
Torch battery	Lithium iron phosphate	3.2	400	520

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
3 W PV	3	3.2
5.5 W PV	5.5	4.9
10 W PV	10	9.7
12 W PV	12	11

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)				Measured Lamp Efficacy (lm/W)			
	High	Mid	Low (Reading)	Bed	High	Mid	Low (Reading)	Bed	High	Mid	Low (Reading)	Bed
Integrated Lantern A	320	200	120	20	320	--	--	--	100	--	--	--
Intergrated Lantern B	320	200	120	20	320	--	--	--	110	--	--	--
LED Bulb	100	--	--	--	100	--	--	--	160	--	--	--
Torch	60	--	20	--	60	--	20	--	150	--	70	--

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Radio	portable radio with 3.7 V internal battery	3	0.33	1500	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
Shenzhen Solar Run Energy Co. Ltd.
WeLite Family

System Name	Number of each component included in each system								
	Bulb	Lantern A (6 Ah battery)	Lantern B (3.3 Ah battery)	3 W PV Module	5 W PV module	10 W PV Module	12 W PV Module	Torch	Radio
SR12A **	1	1	--	--	1	--	--	1	--
SR12B	--	--	1	1	--	--	--	1	--
SR12C	1	2	--	--	--	1	--	1	1
SR12D	2	2	1	--	--	--	1	1	1
SR12E	1	1	--	1	--	--	--	1	--

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

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 covering manufacturing defects in the system and a 2-year warranty for the battery.

Available Daily Electrical Energy and Port Information

Shenzhen Solar Run Energy Co. Ltd.

WeLite Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
SR12A**	8.7	yes
SR12B	7	yes
SR12C	23	yes
SR12D	36	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.