VeraSol
Standardized Specifications Book

Company Name: Shenzhen Solar Run Energy Co., Ltd

Brand Name: Solar Run

Component Family Name: WeLite Family

Family Expiration Date: December 31, 2026

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: 2025
Revision: 2025.04

Component-Level Standardized Specifications Sheet
Shenzhen Solar Run Energy Co., Ltd
WeLite Family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
6 Ah battery	Lithium iron phosphate	3.2	6000	5900
3.3 Ah battery	Lithium iron phosphate	3.2	3300	3400
Torch battery	Lithium iron phosphate	3.2	400	520
Radio battery	Lithium ion	3.7	1500	2000

PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
3 W Polycrystalline PV	3	3.2
5.5 W Polycrystalline PV	5.5	4.9
10 W Polycrystalline PV	10	Not tested
12 W Polycrystalline PV	12	11

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)				Measured Lamp Efficacy (lm/W)			
	High	Mid	Low	Bed	High	Mid	Low	Bed	High	Mid	Low	Bed
Integrated Lantern A	320	200	120	20	320	Not tested	Not tested	Not tested	100	Not tested	Not tested	Not tested
Intergrated Lantern B	320	200	120	20	320	Not tested	Not tested	Not tested	110	Not tested	Not tested	Not tested
LED Bulb	100	-	-	-	100	-	-	-	160	-	-	-
Torch (SR03)	60	-	20	-	59	-	20	-	150	-	70	-

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Torch (SR03)	59 lumens torch, (LiFePO4 battery: 0.52 Ah, 3.2 V)	0.40	0.35	400	520
Radio (F170)	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								
	LED bulb	Lantern A (6 Ah battery)	Lantern B (3.3 Ah battery)	3 W Polycrystalline PV	5.5 W Polycrystalline PV	10 W Polycrystalline PV	12 W Polycrystalline PV	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.

<u>**NOTICE:**</u>

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

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**	13	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.