

VeraSol

Standardized Specifications Book

Company Name: Shenzhen Solar Run Energy Co., Ltd.

Brand Name: Solar Run

Component Family Name: SR 16 family

Family Expiration Date: June 30, 2028

Verify Online: <https://data.verasol.org/products/sek/ssr-sr16fam>

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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 5 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: 2025.11

Component-Level Standardized Specifications Sheet

Shenzhen Solar Run Energy Co., Ltd.

SR 16 family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
SR16 Main Unit	Lithium iron phosphate	6.4	6000	6000
Torch battery	Lithium ion	3.2	400	500
Radio battery	Lithium ion	3.7	1500	1900

PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
10 W PV	10	10
12 W PV	12	12
15 W PV	15	not tested
21 W PV	21	20

Light Sources^

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	on	on	on
1 W lamp	120	130	170
2 W lamp	240	240	170
3 W lamp	360	370	130
Tubelight	360	410	130

Appliances^

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Torch	61 lm torch (Li-ion battery: 0.5 Ah, 3.2 V)	0.6	0.54	0.6	0.5
Radio	Portable radio (Li-ion battery: 1.9 Ah, 3.7 V), with a power consumption of 0.31 W while in use	0.4	0.31	1.5	1.9

^ 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 5 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 62257-9-8:2025. 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.

SR 16 family

Number of each component included in each system

System Name	1 W lamp	2 W lamp	3 W lamp	Tubelight	10 W PV	12 W PV	15 W PV	21 W PV	SR 16 Main unit	Torch	Radio
SR16B32XY		3				1			1	1	1
SR16A	0-4	0-4	0-4	0-1	1	--	--	--	1	0-1	0-1
SR16B	0-4	0-4	0-4	0-1	--	1	--	--	1	0-1	0-1
SR16C	0-4	0-4	0-4	0-1	--	--	1	--	1	0-1	0-1
SR16D	0-4	0-4	0-4	0-1	--	--	--	1	1	0-1	0-1

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

Solar Panel Letters: A = 10W; B = 12W; C = 15W; D = 21W.

Bulbs Letters: 1 = 1W Lamp; 2 = 2W Lamp; 3 = 3W Lamp; 4 = 3W Tubelight.

Remarks:

“**” can be 1, 2, 3, 4, 5, or blank, and indicates the type and quantity of light bulbs (1W / 2W / 3W) included in the kit.

X = torch included; blank = no torch Y = radio included; blank = no radio

NOTICE:

Only the kits denoted with ** were tested as full systems according to Edition 5 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 TS 62257-9-8:2025.

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

Warranty Information

A 2-year warranty covering manufacturing defects for the main unit, PV, torch, lights. A 1-year warranty for the radio and cables.

Available Daily Electrical Energy and Port Information

Shenzhen Solar Run Energy Co., Ltd.

SR 16 family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
SR16B32XY**	38	yes
SR16A	34	yes
SR16D	42	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 Edition 5. 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.