

# VeraSol

## Standardized Specifications Book

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

**Brand Name:** Solar Run

**Component Family Name:** Mbox Family

**Family Expiration Date** January 31, 2026

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

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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:** 2025.03

# Component-Level Standardized Specifications Sheet

Shenzhen Solar Run Energy Co., Ltd

Mbox Family

## Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Main unit with 24 Ah battery (SR32B)	Lithium iron phosphate	12.8	24000	24000
Main unit with 30 Ah battery	Lithium iron phosphate	12.8	30000	not tested
Main unit with 36 Ah battery	Lithium iron phosphate	12.8	36000	not tested
Main unit with 48 Ah battery (SR32E)	Lithium iron phosphate	12.8	48000	48000
Main unit with 60 Ah battery (SR32F)	Lithium iron phosphate	12.8	60000	60000
Radio battery	Lithium ion	3.7	1500	2000
Solar Torch battery	Lithium iron phosphate	3.2	400	520

## PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
80 W Monocrystalline PV module (SR32B)	80	80
100 W Monocrystalline PV module (SR32C)	100	not tested
120 W Monocrystalline PV module (SR32D)	120	not tested
150 W Monocrystalline PV module (SR32E)	150	150
200 W Monocrystalline PV module (SR32F)	200	180

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	high	low	Torch	high	low	Torch	high	low	Torch
2 W LED bulb	240	120	--	260	not tested	--	160	not tested	--
3 W LED bulb	370	180	--	370	not tested	--	150	not tested	--
3 W Tubelight	--	--	--	--	--	--	--	--	--
5 W Tubelight	--	--	--	--	--	--	--	--	--
Solar Torch	--	--	50	--	--	59	--	--	100

Appliances*					
Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Solar Torch	59 lm torch (LiFePO4 battery: 0.52 Ah, 3.2 V)	--	0.59	400	520
Radio (F170)	Portable radio (Li-ion battery: 2 Ah, 3.7), with a power consumption of 0.44 W while in use	--	0.44	1500	2000
24" TV	24" diagonal ( 8.7 W power consumption while in-use)	12	8.7	--	--
32" TV	32" diagonal ( 12 W power consumption while in-use)	15	12	--	--

\* 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	Bulb with 2 settings (240Lm/120Lm)	Bulb with 2 settings (360Lm/180Lm)	3W Tubelight (360Lm)	5W Tubelight (500Lm)	24 Ah main unit	30 Ah main unit	36 Ah main unit	48 Ah main unit	60 Ah main unit	80 W PV module	100 W PV module	120 W PV module	150 W PV module	200 W PV module	Solar Torch	Radio	24" TV	32" TV
SR32B132YTZG **	--	3	--	--	1	--	--	--	--	1	--	--	--	--	1	1	1	--
SR32B*****G	0-5	0-5	0-5	0-5	1	--	--	--	--	0-1	0-1	--	--	--	0-1	0-1	0-1	0-1
SR32C*****G	0-5	0-5	0-5	0-5	--	1	--	--	--	--	0-1	0-1	--	--	0-1	0-1	0-1	0-1
SR32D*****G	0-5	0-5	0-5	0-5	--	--	1	--	--	--	--	0-1	0-1	0-1	0-1	0-1	0-1	0-1
SR32E*****G	0-5	0-5	0-5	0-5	--	--	--	1	--	--	--	--	0-1	0-1	0-1	0-1	0-1	0-1
SR32F*****G	0-5	0-5	0-5	0-5	--	--	--	--	1	--	--	--	0-1	0-1	0-1	0-1	0-1	0-1
**Tested as full systems. Individual SSS available on VeraSol website.																		

The model numbers of the Mbox family kits can be interpreted using the following code key:

Component	Battery					Solar Panel 1st*					*1*2*3*4				Applicanes				Other
Code	B	C	D	E	F	1	2	3	4	5	1	2	3	4	X	Y	T	Z	G
Component Rating	24 Ah	30 Ah	36 Ah	48 Ah	60 Ah	80 W	100 W	120 W	150 W	200 W	2 W bulb	3 W bulb	3 W Tubelight	5 W Tubelight	32" TV	Radio	Torch	24" TV	PAYG

1. B - F : represent battery size
2. 1 - 5 : represent solar panel size
- 3.\*1\*2\*3\*4 represent : ""Lamp Qty ; then "1 - 4" represents type
4. Torch: T, Radio: Y, 32" TV: X, 24 TV: Z

Example:  
SR32F521121314XYTG: 60 Ah main unit, 200 W PV, 2 pcs 2 W bulb, 1 pcs 3 W bulb, 1 pcs 3 W tubelight, 1 pcs 5 W tubelight, 1 pcs 32" TV, 1 pcs radio, 1 pcs torch, PAYG

SR32 - model  
F - 60 Ah main unit  
5 - 200 W PV  
21 - 2 pcs 2 W bulb  
12 - 1 pcs 3 W bulb  
13 - 1 pcs 3 W tubelight  
14 - 1 pcs 5 W tubelight  
X - 1 pcs 32" TV  
Y - 1 pcs radio  
T - 1 pcs torch  
G - PAYG

<b>NOTICE:</b>
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:
<b>Warranty Information</b>
2-year warranty covering manufacturing defects in the system for the main units, bulbs, Torch, and TVs and a 1 year warranty for the Radio.

# Available Daily Electrical Energy and Port Information

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System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
SR32B132YTZG**	250	yes
SR32B*****G (100 W PV)	380	yes
SR32C*****G (100 W PV)	390	yes
SR32C*****G (120 W PV)	470	yes
SR32D*****G (120 W PV)	470	yes
SR32D*****G (150 W PV)	560	yes
SR32E*****G (150 W PV)	560	yes
SR32E*****G (200 W PV)	700	yes
SR32F*****G (150 W PV)	570	yes
SR32F*****G (200 W PV)	710	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.