# VeraSol
# Standardized Specifications Book

**Manufacturer:** ShenZhen Solar Run Energy Co., Ltd

**Component Family Name:** Mbox Family

**Date of Standardized Specifications Book Expiration:** August 31, 2024

**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 the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8*.

**Quality Standards Framework Version:** 2021
**Revision:** 2024.04

# Component-Level Standardized Specifications Sheet
## ShenZhen Solar Run Energy Co., Ltd
## Mbox Family

### Battery / Control Box

| Name / Model Number | Battery Chemistry | Nominal Voltage (V) | Battery Capacity Rating (Ah) | Measured Battery Capacity (Ah) |
|---|---|---|---|---|
| Main unit with 18 Ah battery | Lithium iron phosphate | 12.8 | 18 | 18 |
| Main unit with 24 Ah battery | Lithium iron phosphate | 12.8 | 24 | 24 |
| Main unit with 30 Ah battery | Lithium iron phosphate | 12.8 | not tested | not tested |
| Main unit with 36 Ah battery | Lithium iron phosphate | 12.8 | not tested | not tested |
| Main unit with 48 Ah battery | Lithium iron phosphate | 12.8 | not tested | not tested |
| Main unit with 60 Ah battery | Lithium iron phosphate | 12.8 | 60 | 60 |
| Solar Torch with Integrated PV | Lithium iron phosphate | 3.2 | 0.6 | 0.6 |

### PV Module

| Name / Model Number | Peak Power at STC Rating (W) | Measured Peak Power at STC (W) |
|---|---|---|
| 60 W PV module | 60 | 58 |
| 80 W PV module | 80 | 78 |
| 100 W PV module | not tested | not tested |
| 120 W PV module | not tested | not tested |
| 150 W PV module | 150 | 150 |

### Light Sources*

| Name / Model Number | Luminous Flux Rating (lm) | Measured Luminous Flux (lm) | Measured Lamp Efficacy (lm/W) |
|---|---|---|---|
| | On | On | On |
| 2 W LED Lamp | 165 | 190 | 130 |
| 3 W LED Lamp | 275 | 280 | 110 |
| 300 lm Tubelight | 300 | 320 | 140 |
| 500 lm Tubelight | 500 | 500 | 110 |
| Solar Torch with Integrated PV - front light | 50 | 56 | 95 |

### Appliances*

| Name / Model Number | Description | Rated Power (W) | Measured Power During Use (W) | Rated Battery Capacity (Ah) | Measured Battery Capacity (Ah) |
|---|---|---|---|---|---|
| Radio (F170) | Portable radio | -- | 0.44 | 1.5 | 1.2 |
| 24" TV | 24" diagonal | -- | 8.7 | -- | -- |
| 32" TV | 32" diagonal | -- | 12 | -- | -- |

# List of Covered Systems
## ShenZhen Solar Run Energy Co., Ltd
## Mbox Family

| System Name | 2 W LED Lamp | 3 W LED Lamp | 300 lm Tubelight | 500 lm Tubelight | 60 W PV | 80 W PV | 100 W PV | 120 W PV | 150 W PV | Main Unit with 18 Ah | Main Unit with 24 Ah | Main Unit with 30 Ah | Main Unit with 36Ah | Main Unit with 48Ah | Main Unit with 60Ah | Solar Torch with Integrated PV | Radio | 24" TV | 32" TV' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SR32B33 ** |  | 4 |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  |
| SR32A******/****XG | 0-5 | 0-5 | 0-5 | 0-5 | 1 |  |  |  |  |  | 1 |  |  |  |  | 0-1 | 0-1 | 0-1 | 0-1 |
| SR32B******/****XG | 0-5 | 0-5 | 0-5 | 0-5 |  | 1 |  |  |  |  |  | 1 |  |  |  | 0-1 | 0-1 | 0-1 | 0-1 |
| SR32C******/****XG | 0-5 | 0-5 | 0-5 | 0-5 |  |  | 1 |  |  |  |  | 1 |  |  |  | 0-1 | 0-1 | 0-1 | 0-1 |
| SR32D******/****XG | 0-5 | 0-5 | 0-5 | 0-5 |  |  |  | 1 |  |  |  |  |  | 1 |  | 0-1 | 0-1 | 0-1 | 0-1 |
| SR32E******/****XG | 0-5 | 0-5 | 0-5 | 0-5 |  |  |  |  | 1 |  |  |  |  | 1 |  | 0-1 | 0-1 | 0-1 | 0-1 |
| SR32F******/****XG | 0-5 | 0-5 | 0-5 | 0-5 |  |  |  |  | 1 |  |  |  |  |  | 1 | 0-1 | 0-1 | 0-1 | 0-1 |

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

\*\*\*\*\*\*\*/\*\*\*\*represents: Lamp quantity and type/\*\*\*\*represents torch, radio, TV quantity, X represents 32 inch TV/ No X represents 24inch TV, G: PAYG Mode/No G: No-PAYG

Example: 221315/1110X: 2 pcs 2W, 1 pcs3W, 1 pcs 5w tubelight, 1 pcs torch, 1 pcs radio, 1 pcs 32 inch TV

**NOTICE:**

Only the Mbox Solar Home System (SR32B33) was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Mbox Solar Home System (SR32B33) at https://data.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 the applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8.

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

## Warranty Information

There is a 2-year warranty for the main units, lamps, TVs and torch, and a 1-year warranty for the radio, fan and other accessories.

# Available Daily Electrical Energy and Port Information

## ShenZhen Solar Run Energy Co., Ltd

## Mbox Family

| System Name | Available Daily Electrical Energy (Wh/day) | Includes ports for charging? |
|---|---|---|
| SR32B33** | 290 | 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. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.