



## SR-Box112C-55K 112.5kWh/55kW

### Lithium Battery Energy Storage

#### PRODUCT FEATURE

##### Tuya cloud platform

Equipped with WIFI and Bluetooth communication, it supports Tuya cloud platform and can view battery information remotely.

##### Triple protection

Positive Relay + Negative Relay + Breaker, Adopting redundant design to ensure control safety.

##### Higher safe performance and longer cycle life

Cathode material is made from LiFePO<sub>4</sub> with safety performance and long cycle life.

##### Flexible Installation

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.

##### Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

##### Flexible configuration

Multiple battery modules can be in parallel for expanding capacity and power.

| Model                                     |                                 | SR-Box112C-55K |
|---|---------------------------------|----------------|
| <b>Battery Parameters</b>                 |                                 |                |
| Cell type                                 | LFP/314Ah                       |                |
| Battery pack                              | 16.07kWh/51.2V                  |                |
| Number of packs                           | 7                               |                |
| Rated capacity                            | 112.5kWh                        |                |
| Rated voltage                             | 358.4V                          |                |
| Rated current                             | 150A                            |                |
| Voltage range                             | 313.6-403.2V                    |                |
| Charge / discharge rate                   | 0.5C                            |                |
| Max. Charging/ Discharging Current        | 150A (75A+75A)                  |                |
| <b>AC Output Parameters (on Grid)</b>     |                                 |                |
| Rated output power                        | 55kW                            |                |
| Rated grid voltage                        | 220/380Vac,230/400Vac (3L+N+PE) |                |
| Rated output current                      | 83.6A                           |                |
| Rated grid frequency                      | 50/60Hz $\pm$ 0.3Hz             |                |
| Output THDi                               | <3% (of nominal power)          |                |
| Power factor                              | 0.8 leading to 0.8 lagging      |                |
| Overload capacity                         | 110%(long time), 140%(10s)      |                |
| <b>AC Output Parameters (Backup Load)</b> |                                 |                |
| Rated output power                        | 55kW                            |                |
| Peak Power (off-grid)                     | 80kW, 10s                       |                |
| Rated Output Voltage                      | 220/380Vac,230/400Vac (3L+N+PE) |                |
| Rated Frequency                           | 50/60Hz $\pm$ 0.3Hz             |                |
| Load Motor Capacity                       | 23HP                            |                |
| Switch Time                               | 10ms (Typical)                  |                |



|              |                       |
|--------------|-----------------------|
| <b>Model</b> | <b>SR-Box112C-55K</b> |
|--------------|-----------------------|

|                                    |  |
|------------------------------------|--|
| <b>PV Side Parameters</b>          |  |
| Max. PV Input Power                | 100kW  |
| Max. PV Input Voltage              | 1000Vdc  |
| MPPT Operating Voltage Range       | 150~ 850Vdc  |
| No. Of MPPT Trackers               | 4  |
| Max. PV Input Current              | 40A/40A/40A/40A  |
| Max. Short-circuit Current         | 60A/60A/60A/60A  |
| <b>Grid/Generator Input</b>        |  |
| Input Voltage Range                | 0.85Un -1.1Un  |
| Input Frequency Range              | 50/60Hz  |
| Bypass Overload Current (Inverter) | 200A   |
| ATS(Automatic transfer switching)  | 250A   |
| AC Breaker                         | 250A * 4   |
| <b>Other Parameters</b>            |  |
| Dimension (W×H×D)                  | 1210×2390×1300mm   |
| Weight                             | 1450kg   |
| Operating temperature              | -30°C~+55 °C (-22°F~+131 °F) (Derating Below - 15°C or above 45°C) |
| Maximum working altitude           | 3000 m (> 2000 m Derating)   |
| Noise                              | ≤ 65dB   |
| IP Rating                          | IP55   |
| Cooling method                     | Air conditioner  |
| Fire suppression system            | Aerosol/Smoke sensor/Sound and light alarm                         |
| Communication                      | CAN / RS485 / TCP  |
| Cycle life                         | 6000 cycles (25±2°C, 0.5P / 0.5P, 70%SOH)                          |
| Anti-corrosion Grade               | C3   |
| Compliance                         | UN38.3 、 GB/T36276   |

