

# LESSO



## Residential Wall-mounted Energy Storage



### Flexible

Scalable battery design for easy expansion, Max. 16pc



### Easy Installation

Stylish, ultra-thin. Easy connection, saving installation time and cost



### Application scenario

Villa, household, farm, base station, field power supply



### Safe & Reliable

BYD blade lithium cell. More Safety, longer life cycle and more usable energy, up to more than 10 years working life



### Perfect Compatibility

Compatible to residential 48V hybrid inverter and off grid inverter.  
Compatible with CAN / RS485 communication interface. Matching with leading inverter brands

| Product Model                          | LSRW51V120AH-LFP-B1   | LSRW51V130AH-LFP-B1   |
|--|---|---|
| Battery type                           | BYD blade lithium-iron phosphate (LiFePO <sub>4</sub> )                                   | BYD blade lithium-iron phosphate (LiFePO <sub>4</sub> )                                   |
| Battery energy                         | 6.144kWh  | 6.656kWh  |
| Nominal voltage                        | 51.2V   | 51.2V   |
| Nominal capacity                       | 120Ah   | 130Ah   |
| Operating voltage range                | 43.2V-57.6V   | 43.2V-57.6V   |
| Standard charging mode                 | Constant current charging (CC)  | Constant current charging (CC)  |
| Standard charging current              | 30A @ 25°C  | 30A @ 25°C  |
| Max. constant charging current         | 120A @ 25°C   | 130A @ 25°C   |
| Charge limit voltage                   | 60.8V   | 60.8V   |
| Standard discharging mode              | Constant current discharging (CC)   | Constant current discharging (CC)   |
| Standard discharging current           | 30A @ 25°C  | 30A @ 25°C  |
| Max. discharging current               | 120A @ 25°C   | 130A @ 25°C   |
| Discharge cut-off voltage              | 32V   | 32V   |
| Scalability                            | Max. 16 strings in parallel   | Max. 16 strings in parallel   |
| Depth of discharge                     | 80%   | 80%   |
| Design life                            | >10 years (25°C/77°F)   | >10 years (25°C/77°F)   |
| Protection                             | Over-temperature, over charge, under-voltage, over-current, short circuit alarm functions | Over-temperature, over charge, under-voltage, over-current, short circuit alarm functions |
| Display                                | LED indicator   | LED indicator   |
| Communication                          | CAN / RS485   | CAN / RS485   |
| Dimension (W*D*H)                      | 1078*140*437mm  | 1078*140*437mm  |
| Weight                                 | 76.9kg  | 76.9kg  |
| Installation                           | Wall mount  | Wall mount  |
| Shipping status SOC                    | 20% ~ 30%   | 20% ~ 30%   |
| Charging temperature                   | -20 ~ +55°C   | -20 ~ +55°C   |
| Discharging temperature                | -30 ~ +60°C   | -30 ~ +60°C   |
| Short term storage ambient temperature | -20 ~ +35°C ( <3 months, 20 ~ 60% SOC )   | -20 ~ +35°C ( <3 months, 20 ~ 60% SOC )   |
| Long term storage ambient temperature  | 20 ~ +30°C ( < 1 year, 30~60% SOC )   | 20 ~ +30°C ( < 1 year, 30~60% SOC )   |
| Max.operating altitude                 | 4000m (derating above 2,000m)   | 4000m (derating above 2,000m)   |
| Protection degree                      | IP21, indoorinstallation  | IP21, indoorinstallation  |
| Relative humidity                      | 5% ~ 95%  | 5% ~ 95%  |
| Cooling                                | Natural cooling   | Natural cooling   |
| Noiseemission                          | <29db   | <29db   |
| Certificate                            | CE,UN38.3   | CE,UN38.3   |

Remarks: Specifications are subject to change without notice; Special voltage and power requirements can be customized designed