

# SBH100/150/200/ 250/300/350/400

NEW

High Voltage LFP Battery



## HIGH POWER

- Up to 50A continuous charge and discharge current
- Max.power exceeding 25kW



## SAFETY

- Lithium Iron Phosphate (LFP) Cell
- Refined battery management.



## FLEXIBILITY

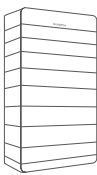
- Extendable as needs
- Support 2-8 modules per unit, max.4 units in parallel (160kWh)



## EASY INSTALLATION

- Stackable & Modular design
- Plug and play, no cable between battery modules



| Type designation                            | SBH100                                                                                         | SBH150                                                                                         | SBH200                                                                                         | SBH250                                                                                          | SBH300                                                                                           | SBH350                                                                                           | SBH400                                                                                           |
|---------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Technical properties                        | <br>2 modules | <br>3 modules | <br>4 modules | <br>5 modules | <br>6 modules | <br>7 modules | <br>8 modules |
| <b>System data</b>                          |                                                                                                |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Battery type                                | LiFePO4 Prismatic Cell                                                                         |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Battery module                              | 5.0 kWh , 45 kg                                                                                |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Energy (useable) *                          | 10.0 kWh                                                                                       | 15.0 kWh                                                                                       | 20.0 kWh                                                                                       | 25.0 kWh                                                                                        | 30.0 kWh                                                                                         | 35.0 kWh                                                                                         | 40.0 kWh                                                                                         |
| Nominal voltage                             | 140.8 V                                                                                        | 211.2 V                                                                                        | 281.6 V                                                                                        | 352.0 V                                                                                         | 422.4 V                                                                                          | 492.8 V                                                                                          | 563.2 V                                                                                          |
| Operating voltage                           | 118.8V-160.6V                                                                                  | 178.2V-240.9V                                                                                  | 237.6V-321.2V                                                                                  | 297V-401.5V                                                                                     | 356.4V-481.8V                                                                                    | 415.8V-562.1V                                                                                    | 475.2V-642.4V                                                                                    |
| Max. charge / discharge current: continuous | 50 A                                                                                           |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Depth of discharge                          | Max. 100 % DOD ( settable )                                                                    |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Display                                     | SOC indicator , Status indicator                                                               |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Communication interface                     | CAN                                                                                            |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| <b>Protection</b>                           |                                                                                                |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Over/under voltage protection               | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Over current protection                     | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Over/under temperature protection           | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| DC breaker                                  | Yes                                                                                            |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| <b>General data</b>                         |                                                                                                |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Dimensions (W*H*D)                          | 675 * 580 *<br>350 mm                                                                          | 675 * 740 *<br>350 mm                                                                          | 675 * 900 *<br>350 mm                                                                          | 675 * 1060 *<br>350 mm                                                                          | 675 * 1220 *<br>350 mm                                                                           | 675 * 1380 *<br>350 mm                                                                           | 675 * 1540 *<br>350 mm                                                                           |
| Weight                                      | 106 kg                                                                                         | 151 kg                                                                                         | 196 kg                                                                                         | 241 kg                                                                                          | 286 kg                                                                                           | 331 kg                                                                                           | 376 kg                                                                                           |
| Installation location                       | Indoor / Outdoor                                                                               |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Mounting method                             | Floor stand                                                                                    |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Operating ambient temperature range         | Charge: 0 °C - 50 °C    Discharge: -20 °C - 50 °C                                              |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Degree of protection                        | IP55                                                                                           |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Allowable relative humidity range           | 0 % - 95 % no condensing                                                                       |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Max. operating altitude                     | Max. 2000 m                                                                                    |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Cooling method                              | Natural convection                                                                             |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Certificates                                | CE, CEC, IEC 62619, IEC 62040, UN 38.3, VDE 2510-50, IEC 62477, IEC 63056                      |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |
| Warranty **                                 | 10 Years                                                                                       |                                                                                                |                                                                                                |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |

\* Test conditions: 25 °C , 100 % depth of discharge ( DOD ), 0.2C charge&discharge

\*\* Refer to battery warranty letter for conditional application