

NEW

SBH100-400

Residential modular battery with heating function



HIGH POWER

- Up to 50A DC charging and discharging current (0.7C)
- Up to 100 % Usable Energy and integrated module-level BMS



FLEXIBILITY

- Each battery expandable from 10 kWh to 40 kWh (2 to 8 modules)
- Smart heating function for cold climate operation (charging even at -20 °C)



SAFETY








- Lithium Iron Phosphate (LFP) battery cells for higher safety
- Real-Time battery safety monitoring with active fire suppression kit



EASY INSTALLATION

- Stackable & Modular design, no external cables between modules
- Only 46 kg per module with integrated handles for 2-people installation



| Type designation | SBH100 | SBH150 | SBH200 | SBH250 | SBH300 | SBH350 | SBH400 |
|---|--|--|--|---|--|--|--|
| Technical properties |  2 modules |  3 modules |  4 modules |  5 modules |  6 modules |  7 modules |  8 modules |
| System data | | | | | | | |
| Battery type | LiFePO4 Prismatic Cell | | | | | | |
| Battery module | 5.0 kWh , 46 kg | | | | | | |
| Energy (useable) ¹ | 10.0 kWh | 15.0 kWh | 20.0 kWh | 25.0 kWh | 30.0 kWh | 35.0 kWh | 40.0 kWh |
| Nominal voltage ² | 140.8 V | 211.2 V | 281.6 V | 352.0 V | 422.4 V | 492.8 V | 563.2 V |
| Rated DC power | 7.04 kW | 10.56 kW | 14.08 kW | 17.60 kW | 21.12 kW | 24.64 kW | 28.16 kW |
| 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. charging / discharging current: continuous | 50 A | | | | | | |
| Depth of discharge | Max. 100 % DOD (settable) | | | | | | |
| Display | SOC indicator , Status indicator | | | | | | |
| Communication interface | CAN | | | | | | |
| Protection | | | | | | | |
| Over / under voltage protection | Yes | | | | | | |
| Over current protection | Yes | | | | | | |
| Over / under temperature protection | Yes | | | | | | |
| Built-in fire suppression kit | Yes | | | | | | |
| DC breaker | Yes | | | | | | |
| General data | | | | | | | |
| Dimensions (W*H*D) | 675 * 580 * 350 mm | 675 * 740 * 350 mm | 675 * 900 * 350 mm | 675 * 1060 * 350 mm | 675 * 1220 * 350 mm | 675 * 1380 * 350 mm | 675 * 1540 * 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 | | | | | | |
| Charging / Discharging ambient temperature range ³ | -20 °C to 50 °C | | | | | | |
| Degree of protection | IP55 | | | | | | |
| Allowable relative humidity range | 5 % to 95 % non-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, UL 9540A | | | | | | |

1. Test conditions: 25 °C , 100 % depth of discharge (DOD) , 0.2C charge&discharge , at the beginning of service life

2. Nominal charging / discharging current and power derating will occur related to Temperature and SOC

3. Recommended optimal operating temperature for longest product lifetime is 25 °C ± 3

