

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 9540 A						

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

