



## STH-BH High Voltage LFP Battery System

STH-BH5-20



STH-BH series is a high voltage battery that offers multiple energy storage options through an expandable modular design (modules 2-8 combined), which further simplifies installation and O&M with multiple smart functions. The safest battery cell technology (LiFePO4) comes with a high charging rate, ensuring superior performance.

### Safe

- ✦ Cobalt free LFP battery with safe and long lifespan, high efficiency and energy density.
- ✦ Full protection with intelligent BMS.

### Flexible

- ✦ Module design, easy to expand capacity options from 5kWh to 20.48kWh.
- ✦ Capable to increase self-consumption for both residential project and commercial project.

### Convenient

- ✦ Easy installation with modular and stacked design. Easy maintenance.
- ✦ Remote diagnosis and real-time data monitoring.

### Reliable

- ✦ Support high discharge power, module level auto-balancing, under voltage automatic restart.

	STH-BH2-5	STH-BH3-7	STH-BH4-10	STH-BH5-12	STH-BH6-15	STH-BH7-17	STH-BH8-20
<b>Electrical Parameters</b>							
NO.of series battery	2	3	4	5	6	7	8
Rated energy (kWh)	5.12	7.68	10.24	12.8	15.36	17.92	20.48
Usable energy (kWh)	4.6	6.9	9.2	11.52	13.8	16.13	18.4
Rated voltage (V)	102.4	153.6	204.8	256	307.2	358.4	409.6
Voltage range (V)	89.6-115.2	134.4-172.8	179.2-230.4	224-288	268.8-345.6	313.6-403.2	358.4-460.8
Rated capacity (Ah)	50						
Charge current (A)	25(Recommended) / 50(MAX)						
Discharge current (A)	25(Recommended) / 50(MAX)						
Cycle times	80%DOD,cycles>6000,residual capacity>70%						
Communication	RS485/RS232/CAN 2.0						
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit						
Size (W*D*H,mm)	710X320X502	710X320X639	710X320X776	710X320X913	710X320X1050	710X320X1187	710X320X1324
Weight (kg)	85.2	118	150.8	183.6	216.4	249.2	282
<b>Working Conditions</b>							
Installation	Indoor						
Working temperature	-10~50						
Optimum working temperature	20~30						
Storage temperature	-30~60						
Protection degree	IP54						
Humidity	5%~95%						
Altitude (m)	2000						
Cooling	Natural						
Certificate	CE, UN38.3, MSDS, CB/EMC, IP						

