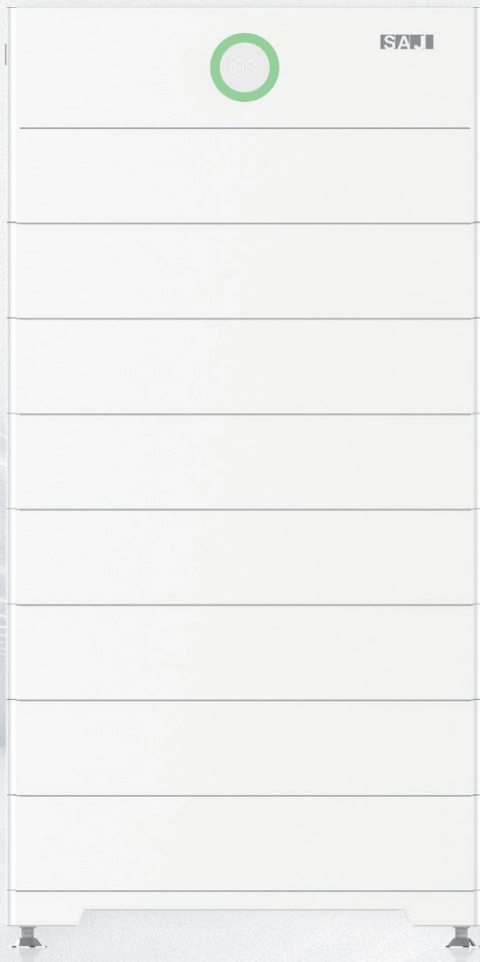


# B2S High Voltage Battery

The B2S is an upgraded high-voltage battery with a stackable design and quick-connect interface for easier installation (single stack capacity from 12.8kWh to 51.2kWh). It offers a variety of capacity options to meet different needs and is suitable for various home.



- ❑ 100% Depth of Discharge
- ❑ Quick Installation with Plug-and-Play Design
- ❑ IP65 for Indoor & Outdoor Installation
- ❑ Up to 51.2 kWh per unit
- ❑ Remote Firmware Upgrade
- ❑ 6000+ Battery Cycles for Long Lifespan

B2-12.8-HVa-S | B2-19.2-HVa-S | B2-25.6-HVa-S  
B2-32.0-HVa-S | B2-38.4-HVa-S | B2-44.8-HVa-S | B2-51.2-HVa-S



Series Model	B2-X-HVa-S (X maybe is 12.8,19.2,25.6,32.0,38.4,44.8 or 51.2 and a maybe is 1,2,3,4 or 6)						
Model	B2-12.8-HVa-S	B2-19.2-HVa-S	B2-25.6-HVa-S	B2-32.0-HVa-S	B2-38.4-HVa-S	B2-44.8-HVa-S	B2-51.2-HVa-S
Number of Battery Modules	2	3	4	5	6	7	8
Battery type	LiFePO4						
Cell capacity [Ah]	a=1,4,6 is100;a=2,3 is 102						
Cycle life <sup>*1</sup>	6000						
Total energy capacity [kWh]	12.8	19.2	25.6	32.0	38.4	44.8	51.2
Usable energy capacity [kWh] <sup>*2</sup>	12.8	19.2	25.6	32.0	38.4	44.8	51.2
Rated Power [W]	6400	9600	25.6	16000	19200	22400	25600
Nominal Voltage [V]	128	192	256	320	384	448	512
Operating Voltage [V]	112~144	168~216	224~288	280~360	336~432	392~504	448~576
Rated/Max. charge and Rated/Max. discharge current [A]	50						
Depth of discharge	100%						
General Data							
Weight [kg] (Battery Control unit + Battery unit+Base)	132.4	188.4	244.4	300.4	356.4	412.4	468.4
Dimension (H*W*D) [mm]	590*725*380	735*725*380	880*725*380	1025*725*380	1170*725*380	1315*725*380	1460*725*380
Storage temperature range	-25 ~ 60						
Operating temperature range	Discharging Temperature : -10℃ ~ 50℃/ Charging Temperature: 0℃ to +50℃						
Relative humidity range	0% ~ 95% non-condensing						
Cooling	Natural convection						
Max. operating altitude	2000						
System ingress protection rating	IP65						
Protective Class	I						
Battery designation	a = 1: IFpP52/161/120/[(1P20S)NS]/M/-10+50/80 (N=2,3,4,5,6,7,8 battery modules) a = 2: IFpP51/161/120/[(1P20S)NS]/M/-10+50/80 (N=2,3,4,5,6,7,8 battery modules) a = 3: IFpP51/161/119/[(1P20S)NS]/M/-10+50/80 (N=2,3,4,5,6,7,8 battery modules) a = 4: IFpP51/161/120/[(1P20S)NS]/M/-10+50/80 (N=2,3,4,5,6,7,8 battery modules) a = 6: IFpP51/161/119/[(1P20S)NS]/M/-10+50/80 (N=2,3,4,5,6,7,8 battery modules)						
Warranty [Year]	Refer to the warranty documentation						
Installation method	Floor standing						
Compatible Inverters	SAJ brad H2 series 2-6 battery modules use for single-phase inverter 3-8 battery modulesuse fo three-phase inverter						
Standard	IEC62040-1, IEC 62619( Cell & System), EN 62477-1, EN 61000-6-1/2/3/4, UN38.3						
Control Module				BC2-HV-S			
Max. Fault Current [A]	100						
Dimension (H*W*D) [mm]	185*725*380						
Weight [kg]	15.3						
Communication	CAN						
Battery Module				BU2-6.4-HVa-S (a maybe is 1,2,3,4 or 6)			
Cell capacity [Ah]	a=1,4,6 is100 and a=2,3 is 102						
Total energy capacity [kWh]	6.4						
Usable energy capacity [kWh] <sup>*2</sup>	6.4						
Rated Power [W]	6400						
Nominal Voltage [V]	64						
Operating Voltage [V]	56 to 72						
Dimension (H*W*D) [mm]	145*725*380						
Weight [kg]	56						
Rated/Max. charge and Rated discharge current [A]	50						
Base							
Dimension (H*W*D) [mm]	135*725*380						
Weight [kg]	5.1						

<sup>\*1</sup> This is provided by the battery cell manufacturer. Based on cell test condition of 25±2℃, 0.5C charge and discharge rate and SOH=70%.

<sup>\*2</sup> Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25℃, at the beginning of life.