

B2S 5.0kWh High Voltage Battery

B2S is an upgraded high-voltage battery that adheres to the same design language as the H2 inverter and supports 1C charge and discharge rate. With a stackable design (5kWh to 25 kWh in one stack, max. 8 stacks in parallel), it offers various capacity options to meet diverse needs, making it suitable for a wide range of home and small business users.



- ❑ 1C charge & discharge rate
- ❑ ≥ 3.65 MWh per kWh of usable battery capacity
- ❑ Modular design scalable up to 200kWh
- ❑ IP65 for indoor & outdoor installation
- ❑ Remote firmware upgrade
- ❑ Operation temperature range of $-10 \sim 50^{\circ}\text{C}$

B2-5.0-HV1-S | B2-10.0-HV1-S | B2-15.0-HV1-S
B2-20.0-HV1-S | B2-25.0-HV1-S

B2-5.0-HV5-S | B2-10.0-HV5-S | B2-15.0-HV5-S
B2-20.0-HV5-S | B2-25.0-HV5-S

MODEL	B2-5.0-HV1-S	B2-10.0-HV1-S	B2-15.0-HV1-S	B2-20.0-HV1-S	B2-25.0-HV1-S
Battery Module	BU2-5.0-HV1-S (32S1P 102.4V50Ah)				
No. of Modules	1	2	3	4	5
Rated Energy [kWh]	5.0	10.0	15.0	20.0	25.0
Usable Energy [kWh]	4.8	9.6	14.4	19.2	24
Rated Power [W]	5120	10240	15360	20480	25600
Dimension (H*W*D)[mm]	261*626*365	522*626*365	783*626*365	1044*626*365	1305*626*365
Weight [kg]	50.5	101	151.5	202	252.5
Nominal Voltage [V]	102.4	204.8	307.2	409.6	512
Operating Voltage [V]	89.6-115.2	179.2-230.4	268.8-345.6	358.4-460.8	448-576.0
Max. Charge Current [A]	50				
Max. Discharge Current [A]	50				
Control Module	BC2-HV-S				
Max. Fault Current [A]	100				
Dimension (H*W*D)[mm]	200*626*365				
Weight [kg]	11				
General Parameters					
Ingress Protection	IP65				
Protection Class	I				
Mounting	Wall-Mounted (optional)/ Ground-Mounted				
Operating Temperature Range	Charging: -10 ~ 50°C; Discharging: -10 ~ 50°C				
Ambient Humidity	0 ~ 95% non-condensing				
Cooling Method	Natural convection				
Communication	CAN				
Warranty [Year]	Refer to the warranty card				
Applicable Standard	IEC 62619(Cell&Pack), EN 62477-1, EN 61000-6-1/2/3/4, UN38.3				

MODEL	B2-5.0-HV5-S	B2-10.0-HV5-S	B2-15.0-HV5-S	B2-20.0-HV5-S	B2-25.0-HV5-S
Battery Module	BU2-5.0-HV5-S (32S1P 102.4V50Ah)				
No. of Modules	1	2	3	4	5
Rated Energy [kWh]	5.0	10.0	15.0	20.0	25.0
Usable Energy [kWh]	4.8	9.6	14.4	19.2	24
Rated Power [W]	5120	10240	15360	20480	25600
Dimension (H*W*D)[mm]	261*626*365	522*626*365	783*626*365	1044*626*365	1305*626*365
Weight [kg]	52.5	105	157.5	210	262.5
Nominal Voltage [V]	102.4	204.8	307.2	409.6	512
Operating Voltage [V]	89.6-115.2	179.2-230.4	268.8-345.6	358.4-460.8	448-576.0
Max. Charge Current [A]	50				
Max. Discharge Current [A]	50				
Control Module	BC2-HV-S				
Max. Fault Current [A]	100				
Dimension (H*W*D)[mm]	200*626*365				
Weight [kg]	11				
General Parameters					
Ingress Protection	IP65				
Protection Class	I				
Mounting	Wall-Mounted (optional)/ Ground-Mounted				
Operating Temperature Range	Charging: -10 ~ 50°C; Discharging: -10 ~ 50°C				
Ambient Humidity	0 ~ 95% non-condensing				
Cooling Method	Natural convection				
Communication	CAN				
Warranty [Year]	Refer to the warranty card				
Applicable Standard	IEC 62619(Cell&Pack), EN 62477-1, EN 61000-6-1/2/3/4, UN38.3				