



Specification sheet for

Energy Storage Battery System

B5000 Series

Version: V3.0

2025-10-15

1. Energy Storage Battery System parameters

Model	B5000-2S	B5000-3S	B5000-4S	B5000-5S	B5000-6S	B5000-7S	
Items	Rating						Note
Elements of system	1 PC HV800, 2 PCS B700	1 PC HV800, 3 PCS B700	1 PC HV800, 4 PCS B700	1 PC HV800, 5 PCS B700	1 PC HV800, 6 PCS B700	1 PC HV800, 7 PCS B700	
Structure	2 series	3 series	4 series	5 series	6 series	7 series	
Nominal voltage	204.8 VDC	307.2 VDC	409.6 VDC	512.0 VDC	614.4 VDC	716.8 VDC	
Maximum Charge Voltage	230.4 VDC	345.6 VDC	460.8 VDC	576.0 VDC	691.2 VDC	784.0 VDC	
Cut-off Voltage	160.0 VDC	240.0 VDC	320.0 VDC	400.0 VDC	480.0 VDC	560.0 VDC	
Rated capacity	72 Ah	72 Ah	72 Ah	72 Ah	72 Ah	72 Ah	
Rated energy	14.75 kWh	22.12 kWh	29.50 kWh	36.87 kWh	44.24 kWh	51.61 kWh	
usable capacity	13.27 kWh	19.90 kWh	26.54 kWh	33.17 kWh	39.81 kWh	46.44 kWh	90% DoD Charging: 0.5C (25°C/77°F) Discharging: 0.5C (25°C/77°F)
Maximum charge current	36 A	36 A	36 A	36 A	36 A	36 A	
Maximum discharge current	50 A	50 A	50 A	50 A	50 A	50 A	
Rated DC Power (Discharging)	10.24 kW	15.36 kW	20.48 kW	25.60 kW	30.72 kW	35.84 kW	
Rated DC Power (Charging)	7.37 kW	11.06 kW	14.75 kW	18.43 kW	22.12 kW	25.80 kW	
Mass of equipment	163 kg	235 kg	307 kg	379 kg	451 kg	523 kg	
Dimension (L×W×H) (mm)	690 × 337 × 1148	690 × 337 × 1534	2168 × 337 × 1148	2168 × 337 × 1285	2168 × 337 × 1534	2168 × 337 × 1671	Arrange battery packs of B5000-4S, B5000-5S, B5000-6S, and B5000-7S systems into two separate stacks
Operating Temperature Range	-20℃ ~ 55℃						
Operating Relative Humidity	5%-95%						
Ingress Protection	IP65						
Operating Altitude	≤2000 m						
Protection Class	Class I						
Battery Chemistry	LiFePO ₄						
DC Isolation devices	DC breaker						
Cooling	Air cooling						
Protection	Insulation resistance detection, Output overcurrent protection, Output overvoltage protection, Short-circuit protection, Over-temperature protection, Low-temperature protection.						
Country of manufacture/assembly	Made in China						
Warranty	10 years						
Compliance	Directive 2011/65/EU and (EU) 2015/863, IEC 60529, UN 38.3, IEC 62619, IEC 62040-1						

2. HV800 Battery Controller parameters

Model	HV800	
Items	Rating	Note
Working Voltage	130 VDC to 800 VDC	
Maximum charge current	36 A	
Maximum discharge current	50 A	
Circuit Breaker	1.000 VDC/80 A	
Fuse	800 VDC/150 A	
Output Connector	100 A/1.000 VDC	
Operating Temperature Range	-20°C ~ 55°C	
Operating Relative Humidity	5%-95%	
Ingress Protection	IP65	
Operating Altitude	≤2000 m	
Dimensions (W × H × D)	659,8 mm × 279,8 mm × 248,8 mm	
Weight	19 kg	

3. Battery parameters

Model	B700	
Items	Rating	Note
Type of battery	LiFePO4	
Cell capacity	72Ah	
Battery capacity	72Ah	1P32S
Nominal Voltage	102.4VDC	
Rated capacity	7372.8Wh	
usable capacity	6635,52 Wh	90% DoD Charging: 0.5C (25°C/77°F) Discharging: 0.5C (25°C/77°F)
Max. charge voltage	115.2VDC	
Final discharge voltage	80VDC	
Maximum charge current	36 A	
Maximum discharge current	50A	
Discharging temperature	-20°C ~ 55°C	
Charging temperature	0°C ~ 55°C	
Operating Relative Humidity	5%-95%	
Ingress Protection	IP65	
Operating Altitude	≤2000 m	
Dimensions (W × H × D)	659,8 mmX279,8 mmX397 mm	
Weight	72 kg	