

MBH20 / 25 / 30 / 35 / 40 / 45
/ 50 / 55 / 60 / 65 / 70 / 75



Long lifespan

- Up to 6,000-cycle lifespan ensures reliable, long-term use
- Up to 2% extra capacity, adding 1kWh for every 50kWh



Reliability

- Up to 2A balancing current (80x passive balancing), ensuring uniform cell aging to significantly extend pack lifespan
- Equipped with 21 protection functions for enhanced safety



Flexibility

- Scalable 4-15 module system, max 78 kWh



Easy Installation

- Touchscreen for easy operation
- BMS height matches the battery, allowing for space-saving installation



Model	MBH20		MBH25		MBH30		MBH35		MBH40	
System Data										
Battery type					LiFePO4					
Module nominal energy					5.22 kWh					
Module nominal capacity					102 Ah					
Module nominal voltage					51.2 V					
Modules per rack	4		5		6		7		8	
Rack nominal voltage	204.8 V		256 V		307.2 V		358.4 V		409.6 V	
Upper limit (Charge cut-off)	230.4 V		288 V		345.6 V		403.2 V		460.8 V	
Lower limit (Discharge cut-off)	179.2 V		224 V		268.8 V		313.6 V		358.4 V	
Rack nominal capacity	20.9 kWh		26.1 kWh		31.3 kWh		36.6 kWh		41.8 kWh	
Rack rated DC power	20.9 kW		26.1 kW		31.3 kW		36.6 kW		41.8 kW	
Recommand charge / discharge current	51 A / 51 A									
Nominal charge / discharge current	100 A / 100 A									
Peak charging / discharging current	120 A / 130 A @ 3s (25 °C)									
Cycle life ¹⁾	6000									
Communication										
Display	LCD touchscreen									
Communication interface	CAN / RS485									
Protection & Functions										
Over / under voltage protection	Yes									
Over current protection	Yes									
Over / under temperature protection	Yes									
Reverse connection protection	Yes									
DC breaker	Yes									
Racks parallel	12									
Balancing method	Active Balancing @ 2A									
General Data										
Dimensions (W * H * D)	534 mm * 1458 mm * 560mm									
Weight	226 kg		267 kg		308 kg		349 kg		390 kg	
Rack	9-tier rack: 8 battery slots and 1 BMS slot									
Degree of protection	IP20									
Mounting method	Floor-standing									
Installation location	Indoor									
Operating ambient temperature range	Charge : 0 °C to 55 °C Discharge : -20 °C to 55 °C									
Allowable relative humidity range	5 % to 85 % no condensing									
Max. operating altitude	≤ 2000 m									
Cooling method	Natural convection									
Compatible inverters	SH10 / 12 / 15 / 20 / 25T, SH50CX									
Certification	IEC 62619, EN 61000-6-1 / -2 / -3 / -4, IEC62477-1, UN 38.3									

Model	MBH45		MBH50		MBH55		MBH60		MBH65		MBH70		MBH75		
System Data															
Battery type							LiFePO4								
Module nominal energy							5.22 kWh								
Module nominal capacity							102 Ah								
Module nominal voltage							51.2 V								
Modules per rack	9		10		11		12		13		14		15		
Rack nominal voltage	460.8 V		512 V		563.2 V		614.4 V		665.6 V		716.8 V		768 V		
Upper limit (Charge cut-off)	518.4 V		576 V		633.6 V		691.2 V		748.8 V		806.4 V		864 V		
Lower limit (Discharge cut-off)	403.2 V		448 V		492.8 V		537.6 V		582.4 V		627.2 V		672 V		
Rack nominal capacity	47 kWh		52.2 kWh		57.4 kWh		62.7 kWh		67.9 kWh		73.1 kWh		78.3 kWh		
Rack rated DC power	47 kW		52.2 kW		57.4 kW		62.7 kW		67.9 kW		73.1 kW		78.3 kW		
Recommand charge / discharge current							51 A / 51 A								
Nominal charge / discharge current							100 A / 100 A								
Peak charging / discharging current							120 A / 130 A @ 3s (25 °C)								
Cycle life ¹⁾							6000								
Communication															
Display							LCD touchscreen								
Communication interface							CAN / RS485								
Protection & Functions															
Over / under voltage protection							Yes								
Over current protection							Yes								
Over / under temperature protection							Yes								
Reverse connection protection							Yes								
DC breaker							Yes								
Racks parallel							12								
Balancing method							Active Balancing @ 2A								
General Data															
Dimensions (W * H * D)	534 mm * 2030 mm * 560mm						534 mm * 1458 mm * 560 mm								
Weight	442 kg		483 kg		524 kg		565 kg		637 kg		678 kg		719 kg		
Rack	13-tier rack: 12 battery slots and 1 BMS slot						Dual 9-tier racks: 15 battery slots and 1 BMS slot								
Degree of protection							IP20								
Mounting method							Floor-standing								
Installation location							Indoor								
Operating ambient temperature range							Charge : 0 °C to 55 °C Discharge : -20 °C to 55 °C								
Allowable relative humidity range							5 % to 85 % no condensing								
Max. operating altitude							≤ 2000 m								
Cooling method							Natural convection								
Compatible inverters	SH10 / 12 / 15 / 20 / 25T, SH50CX						SH50CX								
Certification							IEC 62619, EN 61000-6-1 / -2 / -3 / -4, IEC62477-1, UN 38.3								

High Voltage BMS		MGR100
Main Parameters		
Operating voltage	120 V to 1000 V	
Nominal charge / discharge current	100 A	
Max. charge / discharge current	120 A / 130 A @ 3s (25 °C)	
DC input range	24 V	
General Data		
Operating ambient temperature range	-30 to 70 °C	
Degree of protection	IP20	
Dimensions (W*H*D)	440 mm * 133 mm * 560 mm	
Weight	18 kg	

Product configuration													
Backup time and number of packs													
Inverter model													
	1 h			2 h			3 h			4 h			
SH10T	-			4 units			6 units			8 units			
SH12T	4 units			5 units			7 units			10 units			
SH15T	4 units			6 units			9 units			12 units			
SH20T	4 units			8 units			12 units			8 units * 2			
SH25T	5 units			10 units			8 units * 2			10 units * 2			
SH50CX	10 units			10 units * 2			15 units * 2			14 units * 3			

¹⁾ Test conditions: 25°C ambient temperature, 0.5C/0.5C (charge/discharge) rate, 90% DOD.