MBL050 / MBL120 / MBL160

LONG LIFESPAN

- Up to 8,000-cycle lifespan ensures reliable, long-term use

SAFETY

- High-safety LFP battery
- Supports up to 5 types of safety detection

FLEXIBILITY

- Supports parallel connection of 2 to 20 modules, scalable up to 320 kWh

EASY INSTALLATION

- Touchscreen for easy operation
- Equipped with wheels for effortless transport[1)]



Technical properties	MBL050	MBL120	MBL160
System Data			
Battery type		LiFePO4	
Nominal energy	5.12 kWh	11.8 kWh	16.08 kWh
Battery cycles[2)]	6000	6000	8000
Nominal voltage		51.2 V	
Voltage range		44.8 V – 57.6 V	
Nominal charging / discharging current	50 A / 50 A	115 A / 115 A	157 A / 157 A
Max. charging / discharging current	100 A / 100 A	230 A / 230 A	200 A / 200 A
Peak charging (1s) / discharging current (3s)	110 A / 150 A	250 A / 300 A	210 A / 300 A
Min. discharging current		2 A	
Communication			
Display		LCD touchscreen	
Language		Chinese, English, Arabic, French	
Display Parameters		SOC, Pack voltage, Pack current, Charging / Discharging status	
Communication interface		CAN / RS485	
Protection			
Over / under voltage protection		Yes	
Over current protection		Yes	
Over / under temperature protection		Yes	
DC breaker		Yes	
General Data			
Dimensions (W * H * D)	494 * 513 * 155 mm	432 * 715 * 243 mm	432 * 855 * 243 mm
Weight	47.5 kg	86.5 kg	114.2 kg
Degree of protection		IP20	
Mounting method[1)]		Floor-mounted (Build-in casters) or Wall-mounted	
Installation location		Indoor	
Operating ambient temperature range		Charge : 0 to 55 ℃ (32 ˚F to 131 ˚F) Discharge : -20 to 55 ℃ (-4 ˚F to 131 ˚F)	
Allowable relative humidity range		5% to 95% (non-condensing)	
Storage condition		6 months @ 25 ℃; 3 months @ 35 ℃; 1 month @ 45 ℃	
Max. operating altitude		2000 m	
Cooling method		Natural convection	
Max. parallel units		20	
Certification		CE, IEC 62619, IEC 62477, UN 38.3, MSDS, RoHS	
Compatible inverters		MG5 / 6 / 8 / 10 / 12RL	

[1)] Wall mounting only for MBL050. MBL120 and MBL160 require additional wall mounting accessories.

[2)] Life cycle test conditions: 90% DOD, 0.5C charge & discharge at 25°C.