

# 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<sup>1)</sup>



Technical properties	MBL050	MBL120	MBL160
<b>System Data</b>			
Battery type		LiFePO4	
Nominal energy	5.12 kWh	11.8 kWh	16.08 kWh
Battery cycles <sup>2)</sup>	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	
<b>Communication</b>			
Display		LCD touchscreen	
Language		Chinese, English, Arabic, French	
Display Parameters		SOC, Pack voltage, Pack current, Charging / Discharging status	
Communication interface		CAN / RS485	
<b>Protection</b>			
Over / under voltage protection		Yes	
Over current protection		Yes	
Over / under temperature protection		Yes	
DC breaker		Yes	
<b>General Data</b>			
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 <sup>1)</sup>		Floor-mounted ( Build-in casters ) or Wall-mounted	
Installation location		Indoor	
Operating ambient temperature range		Charge: 0 to 55 °C ( 32 °F to 131 °F ) Discharge: -20 to 55 °C ( -4 °F to 131 °F )	
Allowable relative humidity range		5% to 95% ( non-condensing )	
Storage condition		6 months @ 25 °C; 3 months @ 35 °C; 1 month @ 45 °C	
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	

<sup>1)</sup> Wall mounting only for MBL050. MBL120 and MBL160 require additional wall mounting accessories.

<sup>2)</sup> Life cycle test conditions: 90% DOD, 0.5C charge & discharge at 25°C.