



**CMLB-51.2-300**  
**CMLB-51.2-400**

LITHIUM-ION BATTERY



**PRODUCT KEY FEATURES**

- 👑 High-performance LFP single cell with long life and wide temperature range
- 👑 Compact, lightweight design with high energy density
- 👑 Built-in BMS for monitoring voltage, current, and temperature
- 👑 Fire-redundant wiring and laser welding for enhanced safety
- 👑 LED indicator for SOC and operational status
- 👑 CAN or RS485 communication for seamless inverter integration
- 👑 15+ years of design life
- 👑 Flexible customization of dimensions
- 👑 Customizable dimensions and maintenance-free operation
- 👑 LCD display for real-time battery data (voltage, temperature, SOC)



**Technical Data**

ITEM		SPECIFICATIONS		CONDITIONS
MODEL NAME		CMLB-51.2-300	CMLB-51.2-400	
Nominal	Voltage	51.2V	51.2V	25°C, 0.2C
	Capacity	300Ah	400Ah	
Module weight		128kg	174KG	+1kg
Dimensions, W*D*H (mm)		460*900*231	540*950*264	±2mm
Operating parameters	Charging voltage	56.0V ~ 57.0V		Recommended 100A
	Discharging voltage	44.8V		
	Charging current	Recommended constant charge: 200A	Recommended constant charge: 200A	
	Discharging current	Max. constant discharge: 200A	Max. constant discharge: 200A	
Temperature	Charge range	0°C to 50°C		
	Discharge range	-20°C to 55°C		
	Storage range	-20°C to 55°C		
BMS	Built-in BMS	Voltage, current, temperature management & cell balance		RS485, CAN communication
		Service life	Design life	>15years
	Cycle life	>8000 times, 0.5C, 50%DOD		25°C
Parallel capability		Yes		Max 16

Product specifications are subject to change without further notice.

**BATTERY MODULE PERFORMANCE CURVE**

