

5  
YEARS  
WARRANTY

Terms &amp; Conditions Apply

CMLB-51.2-100  
CMLB-51.2-230

LITHIUM IRON PHOSPHATE (LIFEPO4) BATTERY

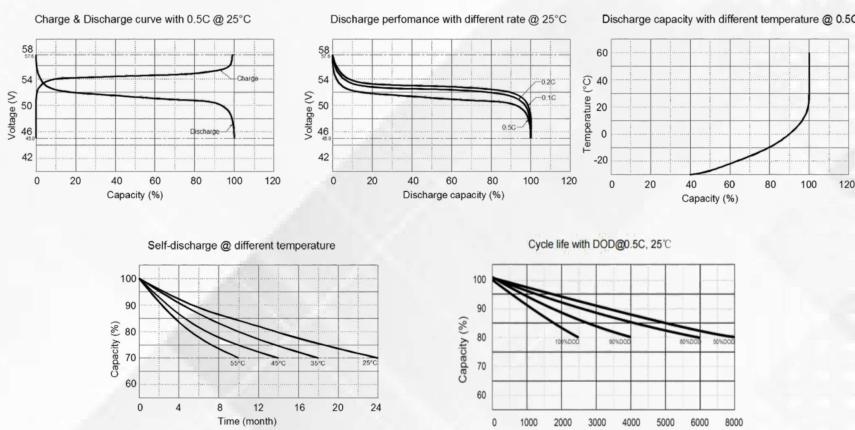


## Technical Data

| Model                                    | CMLB-51-100-WM                                 | CMLB-51-230                                     |
|--|--|---|
| Nominal voltage (VDC)                    | 51.2   | 51.2  |
| Nominal capacity (kwh)                   | 5.12KW   | 11.77KW   |
| Usable capacity (Kwh)                    | 5.12KW   | 11.77KW   |
| Dimension, W*D*H (mm)                    | 445*580*178                                    | 455*740*234                                     |
| Weight (kg)                              | 52   | 99  |
| Depth of discharge                       | 95%  | 95%   |
| (Normal)                                 | 50A  | 100A  |
| (Max.)                                   | 100A   | 200A  |
| (Peak)                                   | >115A (1s), ≥120A (Delay 1s) ≥200A (Delay 1s)  | >210A (1s), ≥220A (Delay 1s) / ≥300A (Delay 1s) |
| Voltage (Max.)                           | 56.8V  | 56.8V   |
| Low Cut off                              | 44.0V  | 44.0V   |
| Communication port                       | RS485, CAN                                     | RS485, CAN                                      |
| Cell in single string quantity (pcs)     | 16   | 16  |
| Working temperature / (C) charge         | 0C ~ 60C                                       | 0C ~ 60C  |
| Working temperature / (C) Discharge      | >-10C ~ <65                                    | >-10C ~ <65                                     |
| Storage temperature                      | -20C ~ 55C                                     | -20C ~ 55C                                      |
| Short circuit current/ Duration time (A) | 1000A 0.3ms                                    | 2000A 0.3ms                                     |
| IP rating                                | IP-30 (dustproof)                              | IP-30 (dustproof)                               |
| <b>Humidity (RH)</b>                     |  |   |
| Altitude (m)                             | < 2000m  | < 2000m   |
| Design life (@25 C)                      | 15 Years                                       | 15 Years  |
| Cycle life (@25 C)                       | >6000 times, 0.5C, 95%DOD                      | >6000 times, 0.5C, 95%DOD                       |
| Status indicators                        | LCD, LED level                                 | LCD, LED level                                  |
| Protections                              | Over discharge, Over voltage, Over temperature | Over discharge, Over voltage, Over temperature  |

Product specifications are subject to change without further notice.

## BATTERY MODULE PERFORMANCE CURVE



## PRODUCT KEY FEATURES

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



Integrated

Safe

Smart

Versatile

Battery Management System

User-friendly

Easy Installation