



12.8V 100Ah LiFePO4 Battery Specification

2023

A bright future energized by
opportunities for all.

MISSION

To energize products and people
with our high-quality batteries and
moral-driven actions.



CM BATTERIES
BOOST YOUR ENERGY



12.8V 100Ah Battery Specification

Basic Information

Nominal Characteristics	
Brand	CMB
Stored energy	1280Wh
Rated capacity	100Ah
Nominal voltage	12.8V
Volt range	10V-14.6V

Operating Temperature Range	
Charge	0°C~55°C/32°F~131°F
Discharge	-20°C~60°C/-4°F~140°F
Storage	
1 month	-20°C~45°C/-40°F~113°F
6 months	-10°C~35°C/10°F~95°F

Charge Characteristics	
Charge time	Standard: 5.5h Rapid: 1.5h
Charge method CC-CV	Standard: 25A/14.6V Rapid: 100A/14.6V
Max continuous charge current	50A
<p>Series & parallel connection: max 4 series connection and unlimited parallel connection. Batteries must be same voltage before series or parallel connection.</p>	

Mechanical Characteristics	
Cycle life 0.5C,23°C/73°F	10% DOD>6000 cycles 100% DOD>2000 cycles
Dimensions (LxWxH)	300x200x220mm 11.81x7.87x8.66"
IP rating	IP66/IP68
Cell type	LiFePO4
Certification	UN38.3/CE

Personalized Parameters

Additional Information	12V100Ah-A	12V100Ah-B	12V100Ah-C	12V100Ah-D	12V100Ah-E	12V100Ah-F	12V100Ah-G	12V100Ah-H
Max discharge current	100A	100A	150A	150A	200A	200A	200A	200A
Instantaneous peak current	200A	200A	300A	300A	400A	400A	400A	400A
UART communication	/	/	✓	✓	/	/	/	/
485 communication	/	/	✓	✓	✓	✓	✓	✓
Low temperature charge function	/	/	/	/	/	/	✓	✓
Bluetooth App	/	/	✓	✓	✓	✓	✓	✓
Low power button	/	/	✓	✓	✓	✓	✓	✓
Waterproof cooling fan	/	/	/	/	✓	✓	✓	✓
Waterproof level	IP66	IP68	IP66	IP68	IP66	IP68	IP66	IP68
Weight	11kg	14kg	11kg	14kg	11kg	14kg	11kg	14kg



Application Scenarios



Boat



Trolling Motor



Dump Trailer



Trailer



Motor Home



Sprinter Vans



Golf Cart



Home

100% SOC
(State of Charge)

Self-discharge
2-3% Per Month

Voltage Hold at Around
12.8V-13.8V
Provide >80% Capacity

Works Great in -4°F

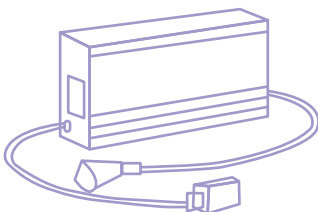
100% DOD
(Depth of Discharge)

Water Proof

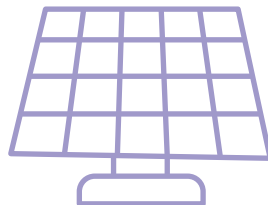
Weighting 30.8LB
Only 1/3 the Weight
Same Capacity Lead
Acid Battery

Voltage
Balanced Design

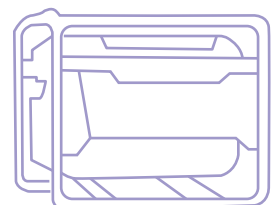
3 Ways To Charge the Battery



Charger
12V(14.6V)20A Lifepo4
Battery Charger: 6hrs



Solar Panel + MPPT
Recommend: 400W
Within 1 Sunny Day



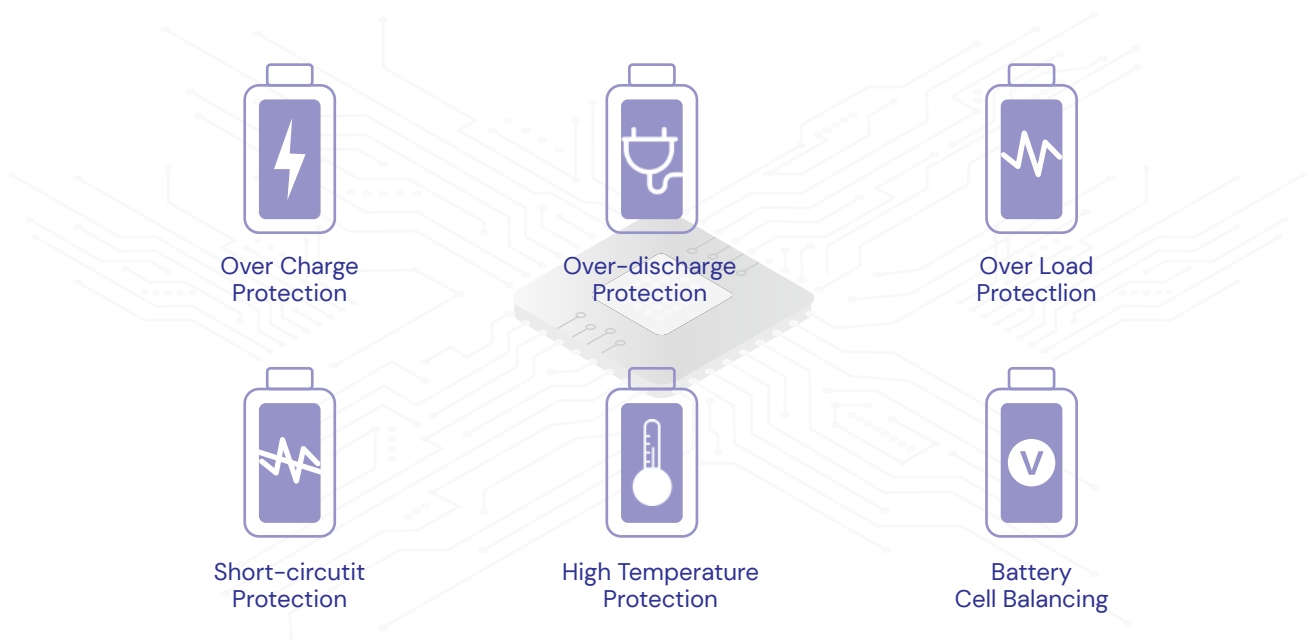
Generator
Add a 20A DC to
DC Charger: 6hrs

CMB 12.8V Lifepo4 Deep Cycle Batteries

It can be used in series for up to 48V systems. Engineered with Lithium Iron Phosphate (LiFePO₄) technology this battery has twice the power, half the weight, and lasts 4 times longer than a sealed lead acid battery – providing exceptional lifetime value.



Built-in Battery Management System



Maximum Continuous Discharging Current: 100 A



Trolling Motor/Sailboats/RV/Golf Carts/Mining Locomotives

High current: the continuous and stable high current output can meet the application requirements of high power



Cordless Snow Thrower/ICE Fishing/Winter Camping

Low temperature discharge: in -4°F

Camping/Fishing/Fish Finders/Motor Boats/Boat

Waterproof IP68: even if the battery falls into the lake, it will not damage the BMS and battery cells



Self-heating Function

CMB 12V deep cycle battery equipped with self-heating function can heat the battery to above -20°F , making charging safer and more efficient, and improving your energy in winter.

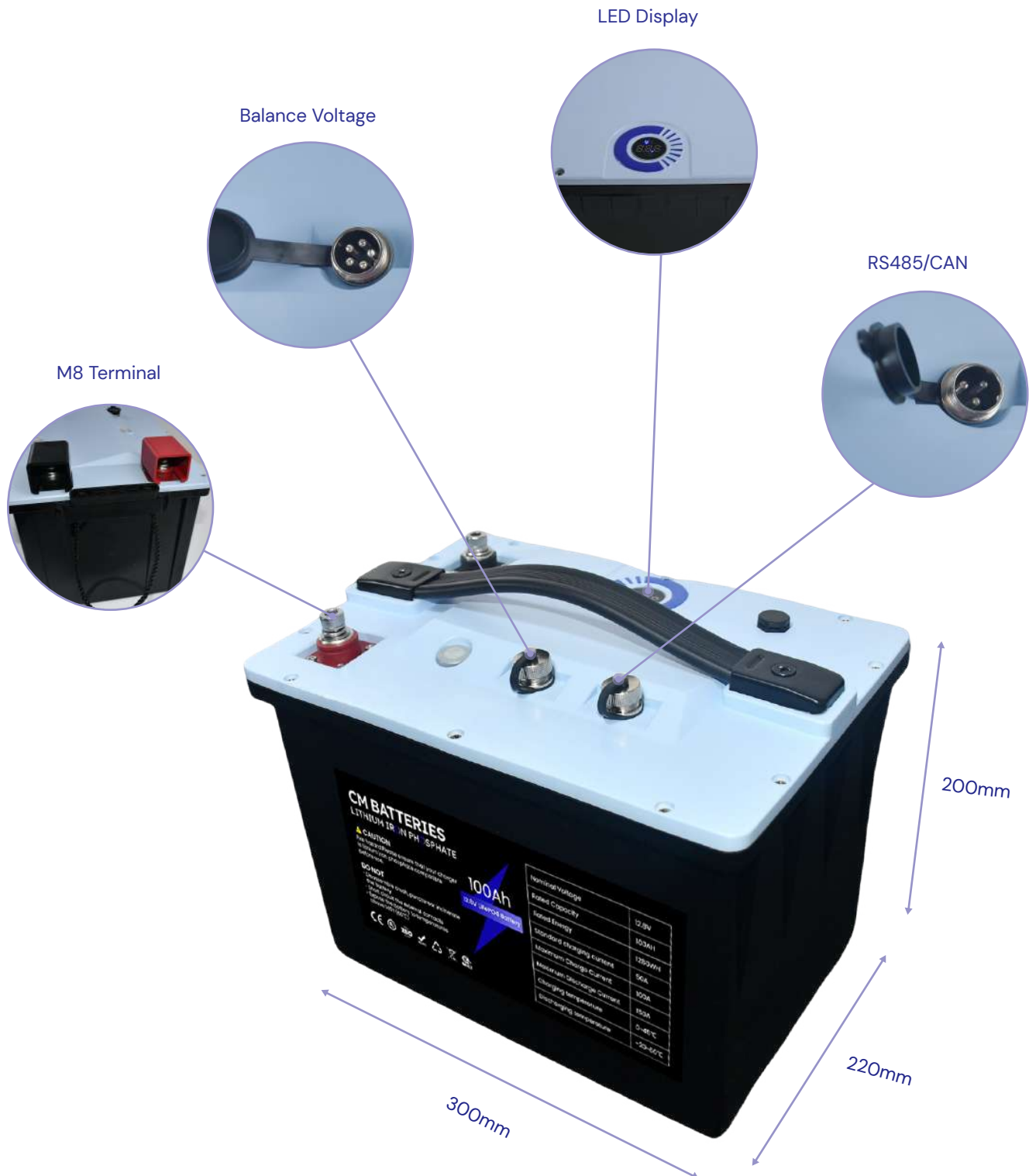


Bluetooth Enabled/iPhone/Android App



How to Repair a Faulty Battery?

Balancing the Voltage of battery cells can solve 90% of battery failures. According to the CMB operation manual, inexperienced users can use a voltage balancing instrument to connect the battery to repair the voltage problems. Of course, choose CMB's local repair station, it can help you solve the battery problem.



CHERRY YI

MESSAGE FROM THE CEO

I want to energize others through my company's products and initiatives, as well as my own daily actions.



At the center of CM Batteries is Cherry (our founder) and Max (our head of production). You guessed it – that's what the "C" and "M" stand for in "CM Batteries". Cherry and Max are fueled by their desire not only to produce the highest quality and most dependable batteries on the market, but also to energize those around them and make a difference in the world in any way they can.

That's why, as CM Batteries continues to grow, we strive to share the energy we're amassing. Our charge on initiatives allow us to share our good fortune with the people who need it most, and our responsible recycling and sourcing

processes help us curb tech waste's impact and protect Mother Earth. We're on a mission to energize products, people, and the planet with our high-quality batteries and moral-driven actions. Join us! It's time to boost your energy.



Manufacturing

- One-stop manufacturer for custom battery design and production over 15 years.
- Production digital chain quality monitoring system to track products from CMB.
- ISO 9001: 2015 quality management system.



Engineering

- Our engineering team is at the core of CMB's work. Our chief technology officer (CTO) has more than 15 years of experience in the lithium ion battery industry and has previously worked with ATL, BYD, and BAK (three established battery pack companies).
- Battery pack technology: double discharge and charge protection in high and low temperature environment for safety. And heat insulation and suppressive heat for safety and longer cycles.



Service

- Efficient battery pack project management
- Two years warranty for CMB's batteries.
- Free battery pack technology and workmanship's modification per year.
- Batteries technology and guideline to our customers every year.



CM BATTERIES

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