

DRIVE MOTION LITHIUM DATA SHEET



LFP12.8V400AH (8D)



Electrical Specifications

Nominal Voltage	12.8 V
Nominal Capacity	400 Ah
Energy	5120 Wh
Self Discharge	≈ 3% per month
Efficiency	>98%
Parallel Support	Yes, Max 4 Sets
Series Support	Yes, Max 4 Sets

Discharge Specifications

Max. Discharge Current	200 A
End of Discharge Voltage	11.2 V
Low Voltage Protection	10 V
Low Voltage Reconnect	11.2 V

Charge Specifications

Charging Voltage	14.4-14.6 V
Max. Charging Current	100 A
Recommended Charging Current	20 A - 100 A
High Voltage Protection	14.8 V
High Voltage Reconnect	13.8 V

Temperature Specifications

Discharge Temperature	-20°C - +55°C
Charge Temperature	-20°C - +55°C
High Temperature Protection	55°C
High Temperature Reconnect	45°C
Low Temperature Protection	-20°C
Low Temperature Reconnect	-17°C

Heating Specifications

Heating Temperature	-20°C - +10°C
Activation Voltage	14.6 V
Heating Current	3.5 A
Heating Power	100 W
Heating Time	4-8°C per hour

Mechanical Specifications

Dimensions (Group 8D)	522 x 268 x 220 20.55 x 10.55 x 8.66
Weight	40 Kg (88 lbs)
Terminal Type	M8
Terminal Torque	9.8N/m
Enclosure Protection	IP65

Communication Specifications

Bluetooth	DM BT (Drive Motion Bluetooth) iOS & Android App
Communication Ports	RJ45
Victron communication	Yes

Cycle Life Specifications per DOD %

30% Discharge	8000 < cycles
80% Discharge	5000 < cycles
100% Discharge	3500 < cycles

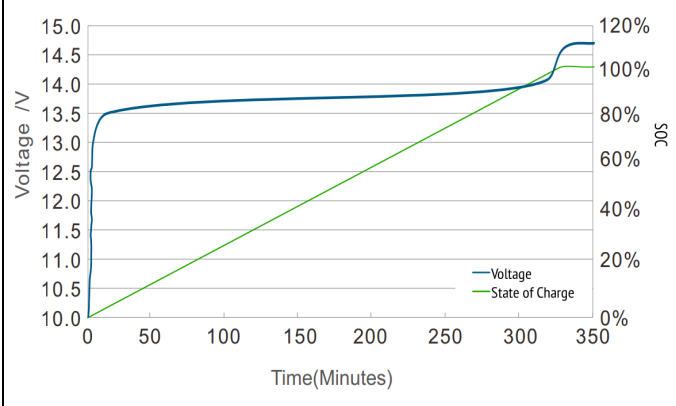
Conception & Compliance

Conception	4S2P
Cell Type	Grade A + Prismatic LiFePO4 cells (200 Ah)
Cell Certifications	UL1973, UL9540A, UN38.3, ROHS, IEC62619
Battery Certifications	UN38.3, MSDS, CE
Shipping Classification	UN 3480, CLASS 9

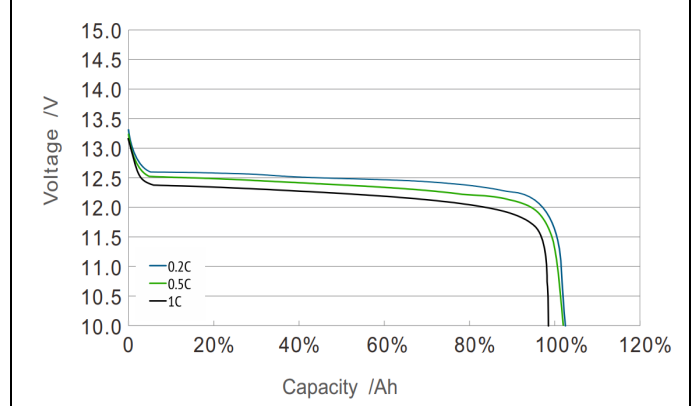
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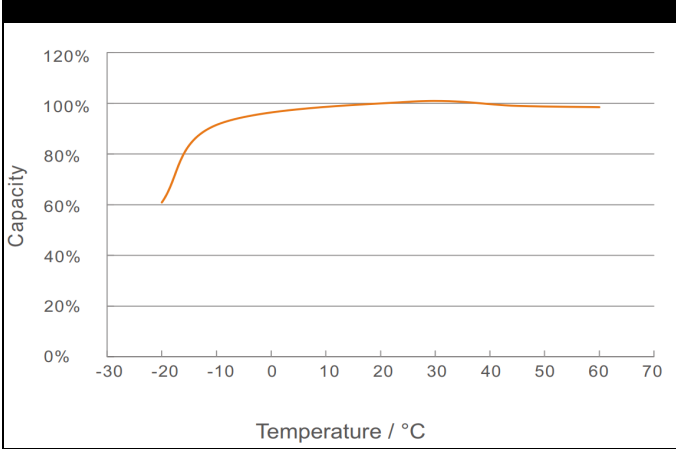
**Charge Voltage & State of Charge (SOC)
0.2C@25°C (77°F)**



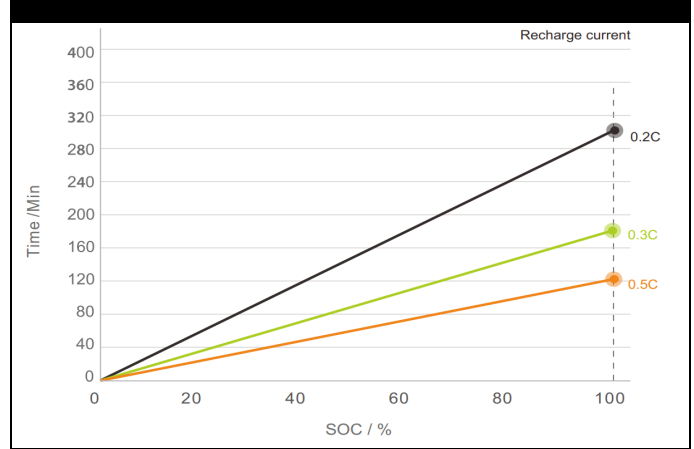
**Discharge Voltage Characteristics at
Various Rates 25°C (77°F)**



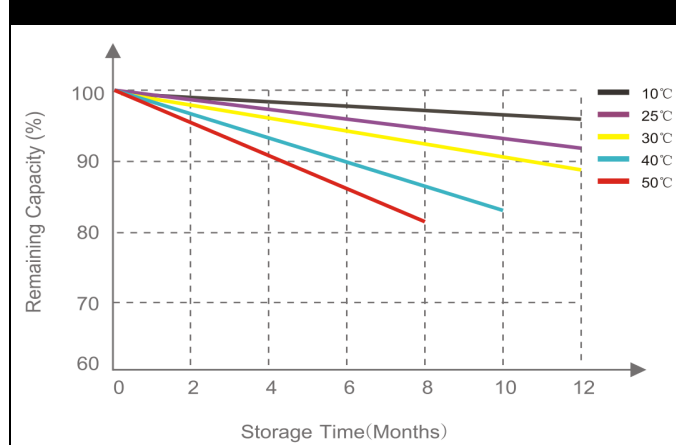
Capacity at Different Temperatures



Typical Recharge Time



Self Discharge Curve at Different Temperatures



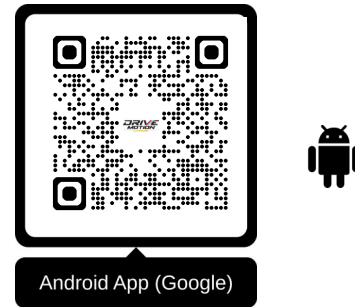
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DM BT Bluetooth App User Guide

To download the app scan QR codes below or search for DM BT (DriveMotion Bluetooth) in the App Store or Google Playstore or use the QR codes below

Note to user: For battery models that do not have a power button, if the battery receives no charge or is not discharged for over 60 mins, the battery will enter sleep mode. To wake up the battery, simply apply a charge, or load, and the battery will be visible and ready for pairing in the app.



Bluetooth ID

- RDAC233F9CCCC0
- RDAC233F9EBEBD
- RDAC233F9D8A88

State of Charge

SOC: 43.3%

0% FULLY CHARGE OR DISCHARGE 100% CAN CALIBRATE SOC

Battery Voltage: 13.3 V VOLTAGE

Battery Current (Out & in): 0 A CURRENT

Battery temperature: 20 °C / 68.0 °F

Charge, discharge & Heating status

- Charging: ON
- Discharging: ON
- Heating: OFF
- 101 CYCLE

Rated Capacity: 200.0 AH FULL CAPACITY

Remaining Capacity: 86.7 AH REMAIN CAPACITY

Cell Voltage: 3.326 V THE HIGHEST CELL VOLTAGE

Cell Voltage Difference: 0.000 V VOLTAGE DIFFERENCE

System Status: STANDBY

Alarm & Protection:

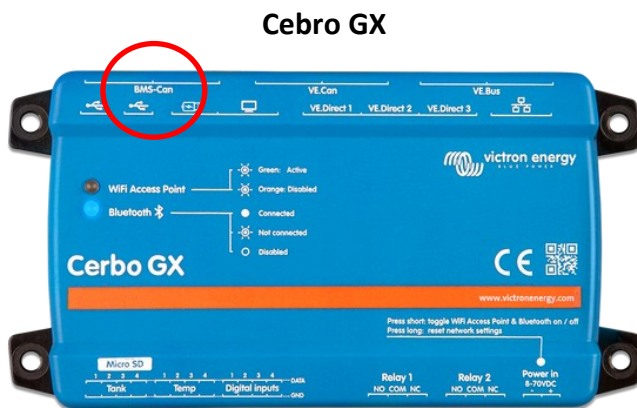
- Low temp. alarm
- Low temp. protection
- High temp. alarm
- High temp. protection
- Low voltage alarm
- Low voltage protection



Cerbo GX Connection Guide

Step One:

Identify if you have a Cerbo GX or Cerbo GX MK2.



Step 2:

If you have a Cerbo GX, make sure the Can-bus profile of your BMS-Can port is set to 500 kb/s. Follow the selection path below:

Settings > Services > BMS-Can port > Can-bus profile > Select Can-bus BMS (500 Kb/s)

If you have a Cerbo GX MK2, you have to change the VE.Can 1 port to a Can-bus BMS (500 kb/s) port in the settings. Follow the selection path below :

Settings > Services > VE.Can port > Can-bus profile > Select Can-bus BMS (500 Kb/s)

Step 3:

If you have a Cerbo GX, using the RJ45 cable provided with the battery, connect the side of the cable labeled 'Inverter' into one of the BMS-Can ports. In the second port beside it plug in a VE.Can terminator. Then connect the side of the cable labeled 'battery' into the battery port labeled 'DOWN' or 'LINK-OUT'

If you have a Cerbo GX MK2, using the RJ45 cable provided with the battery, connect the side of the cable labeled 'Inverter' into one of the VE.Can 1 ports. In the second port beside it plug in a VE.Can terminator. Then connect the side of the cable labeled 'battery' into the battery port labeled 'DOWN' or 'LINK-OUT'.