

DRIVE MOTION LITHIUM DATA SHEET

LFP12.8V150AH (31)



Electrical Specifications

Nominal Voltage	12.8 V
Nominal Capacity	150 Ah
Energy	1920 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	100 A
End of Discharge Voltage	11.2 V
Low Voltage Disconnect	10 V
Low Voltage Reconnect	11.2 V

Charge Specifications

Charging Voltage	14.2 V - 14.6 V
Max. Charging Current	100 A
Recommended Charging Current	10 A - 65 A
High Voltage Disconnect	3.7V (CELL) 14.8 V (PACK)
High Voltage Reconnect	3.45V(CELL) 13.8 V (PACK)

Temperature Specifications

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

Heating Specifications

Heating Temperature	-20°C - +10°C
Activation Voltage	14.6 V
Heating Current	7 A
Heating Power	100 W
Heating Time	4-8°C per hour



Mechanical Specifications

Dimensions (BCI Group 31)	330 x 172 x 214 (mm) 13 x 6.77 x 8.66 (in)
Weight	16 Kg (35.2 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	No
Victron communication	No

Cycle Life Specifications per DOD %

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

Conception & Compliance

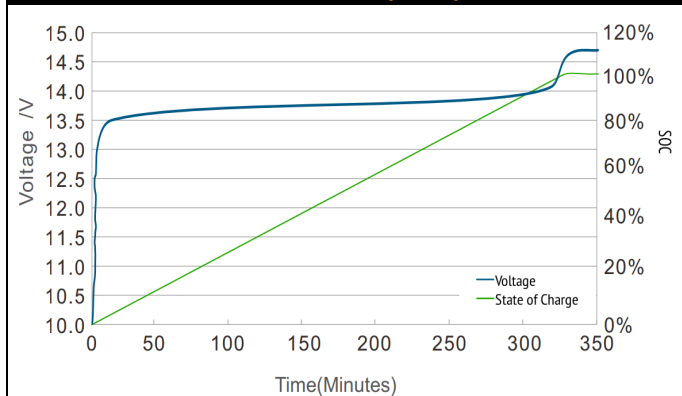
Conception	4S1P
Cell Type	Grade A+ Prismatic LiFePO4 cells (150 Ah)
Cell Certifications	UL1973, UL9540A, UN38.3, ROHS, IEC62619
Battery Certifications	UN38.3, MSDS, CE
Shipping Classification	UN 3480, CLASS 9

DRIVE MOTION

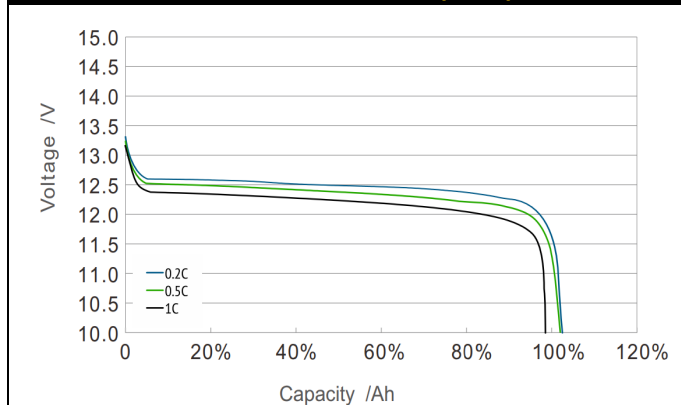
LITHIUM DATA SHEET



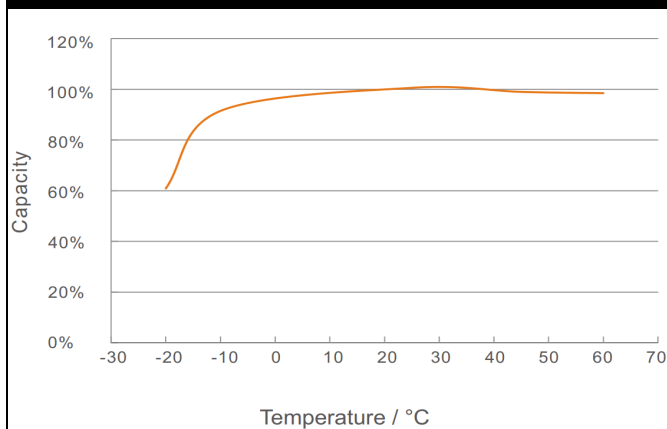
**Charge Voltage & State of Charge (SOC)
0.2C@25°C (77°F)**



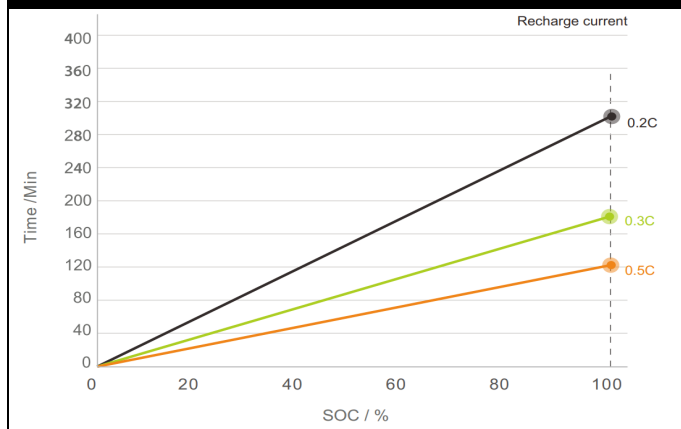
**Discharge Voltage Characteristics at
Various Rates 25°C (77°F)**



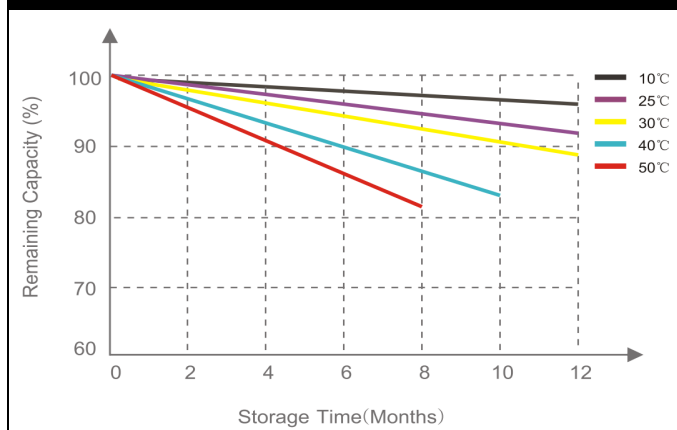
Capacity at Different Temperatures



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.

