



# FUSION LITHIUM BATTERY

## V-LFP-12-200M

### LITHIUM IRON PHOSPHATE BATTERY

#### PERFORMANCE

- Long Cycle Life >2000cycles @ 100% DOD.
- High Density, High Discharge Current, High Temperature
- Light Weight, Maintenance Free
- Fast Charging.
- Environment Friendly.

#### FEATURES

- Lithium Iron Phosphate (**LiFePO<sub>4</sub>**).
- Integrated Battery Management System(BMS).
- BMS with Intelligent Cell Balancing
- Anti-Vibration
- Rugged Metal Case

#### BATTERY DATA SHEET

##### Electrical Parameters

Nominal Voltage	12.8V
Rated Capacity	200Ah
Energy	2560Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month
Max. Battery connected in Series	4PCS
Max. Battery connected in Parallel	20PCS

##### Discharge Parameters

Continuous Discharge Current	150A
Peak Discharge Current	450A(10 seconds)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8V
Reconnect Voltage	9.2V
Short Circuit Protection	200~600 us

##### Compliance Certificate

Certifications	UL1642
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

##### Mechanical Parameters

Dimension(L x W x H)	600x 172x 212mm
	23.62 x 6.77 x 8.35"
Weight	24.0kg(52.9lbs)
Terminal Type	M8 *Terminal Torque 10-12 (N.m)
Battery Housing	Metal
Housing Protection	IP67 *Reset Button: IP65
Cell Type-Chemistry	LiFePOCell
SOC Display(Optional)	None

##### Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	20A - 40A
Maximum Charge Current	150A
Minimum Charge Current	15A
BMS Charge Cut-off Voltage	15.6V

##### Temperature Parameters

Discharge Temperature	-20 to 60°C (-4 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-25 to 60°C (-13 to 140°F)
BMS Low Temperature Cut-off	-10°C(14°F)
BMS Low Temperature Turn-On	0°C (32°F)
BMS High Temperature Cut-off	65°C(176°F)
BMS High Temperature Turn-On	55°C (131°F)

#### HEAD OFFICE

Unit 30 76 Hume Highway LANSVALE NSW 2166

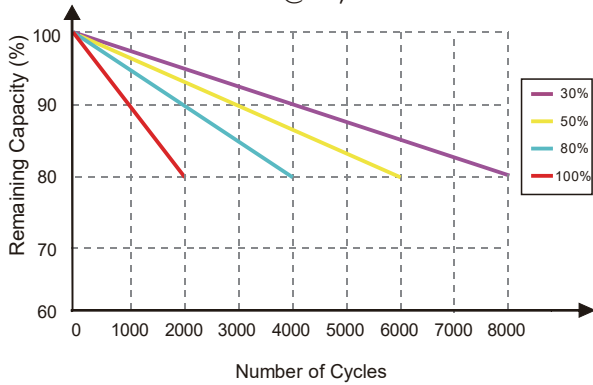
Tel: +(02) 9755 7851 Fax: +(02) 9755 7852

Email: batteries@superstart.com.au

## Performance Characteristics

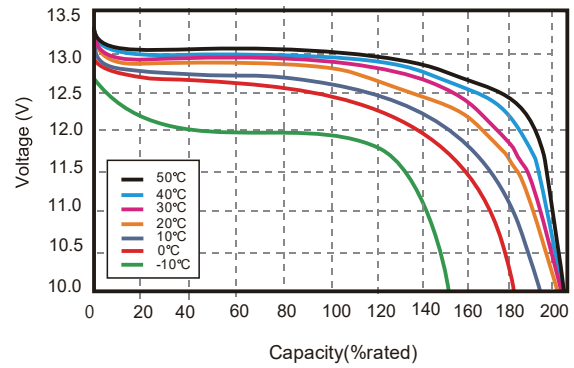
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)

DISCHARGE@1C, 25 °C

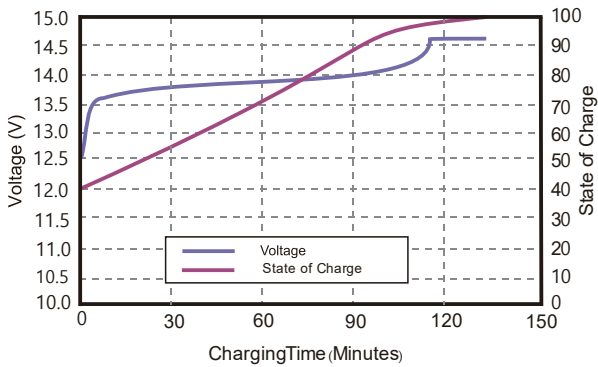


DISCHARGE CAPACITY at VARIOUS TEMPERATURES

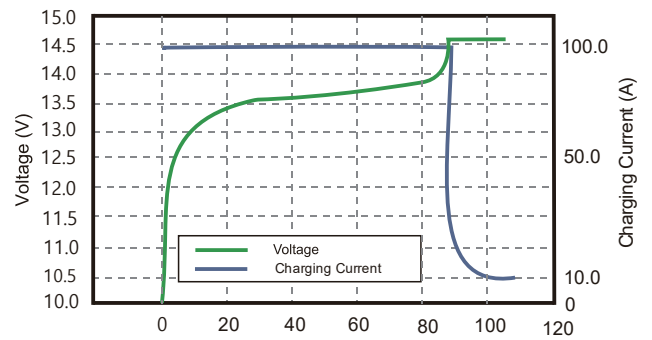
DISCHARGE@1C, 25 °C



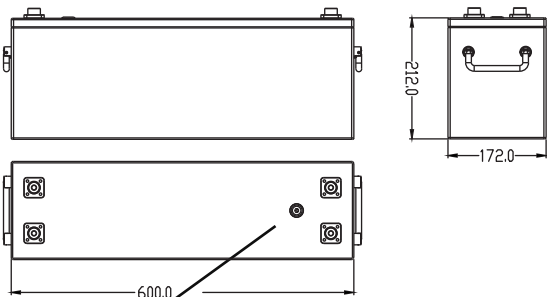
STATE OF CHARGE CURVE @0.5C, 25 °C



CHARGING CHARACTERISTICS @0.5C, 25 °C



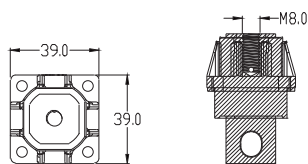
## Battery Dimension



The reset button:  
When an abnormal situation occurs, BMS start protection and stop working. And BMS will restart once abnormal condition released. If the BMS does not recover automatically, press the reset button to activate the BMS.

M8 - 1.0x 8mm  
Threaded Hole

**Terminal Torque**  
10-12 (N.m)



## Battery Applications

- + Marine (House Batteries)
- + RV / Camping (Automotive)
- + Data Center UPS
- + Telecom Backup Power
- + Military Power Supply
- + Solar Energy Storage System
- + Solar Street LED Lightings
- + Autonomously Guided Vehicles (AGVs)
- + Industrial Robotics & Handling Equipment
- + Floor Cleaning Machines
- + Power Tools, Lawn Mower
- + Electric Bike & Motorcycles
- + Electric Mobilities( E-scooters, Wheelchair)
- + Golf Trolley & Golf Carts
- + Medical Devices
- + Electric Boats
- + Electric Fences

**NOTE:**

Do Not Mix With Sealed Lead Acid Batteries When Recycling. See FUSION User's Manual for Proper Operation. Fusion Lithium BATTERIES. All Rights Reserved.



**TRADING SINCE 1995**

