

**LITHIUM IRON PHOSPHATE
DEEP-CYCLE LiFePO4 BATTERY**

PERFORMANCE

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

BATTERY DATA SHEET

Battery Parameters

Nominal Voltage	12.8V
Rated Capacity	100Ah
Watt Hour	1280Wh
Resistance	≤30mΩ
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month
Max. Battery connected in Series	4 PCS
Max. Battery connected in Parallel	20 PCS

Discharge Parameters

Continuous Discharge Current	100A
Peak Discharge Current	300A(5 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,UL2054
	CE
	IEC62133 & CB
	CBS 125197 0001 REV. 00
	KC
	BIS
Shipping Classification	UN3480, Class 9,UN38.3

FEATURES

- Lithium Iron Phosphate (LiFePO4) Integrated
- Battery Management System(BMS)
- BMS with Intelligent Cell Balancing
- Metal Housing
- SOC LED /LCD Indicator
- Reset Button
- 2 x Anderson plugs - 120A input/output
- 5 Years Warranty

Mechanical Parameters

Dimension(L x W x H)	624 x220 x 60mm
Weight	14kg(30.86lbs)
Terminal Type	Anderson
Battery Housing	Metal
Housing Protection	IP67
Cell Type-Chemistry	Cylindrical Cells
SOC Display(Optional)	Yes

Charge Parameters

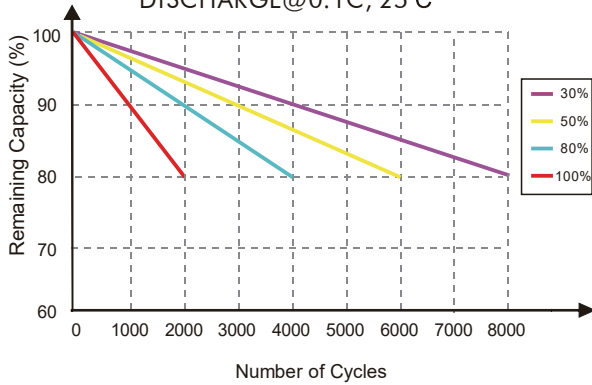
Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	10A~50A
Maximum Charge Current	100A
Minimum Charge Current	10A
BMS Charge Cut-off Voltage	15.6V

Charge Parameters

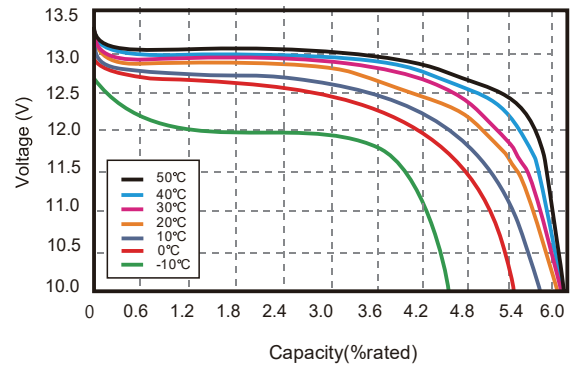
Discharge Temperature	-20 to 60°C (-4 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-25 to 60°C(-4 to 140°F)
BMS Low Temperature Cut-off	-10°C (14°F)
BMS Low Temperature Turn-off	0°C (32°F)
BMS High Temperature Cut-off	65°C (176°F)
BMS High Temperature Turn-off	45°C (113°F)

Mechanical Parameters

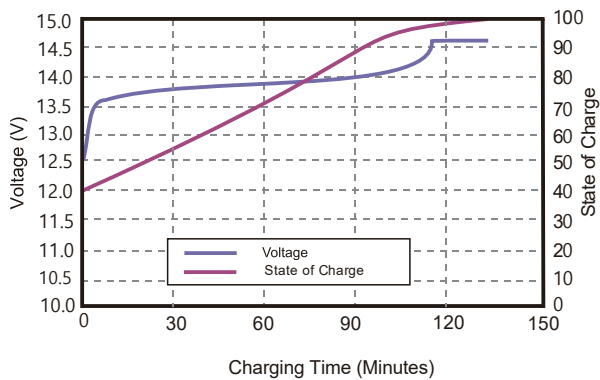
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.1C, 25°C



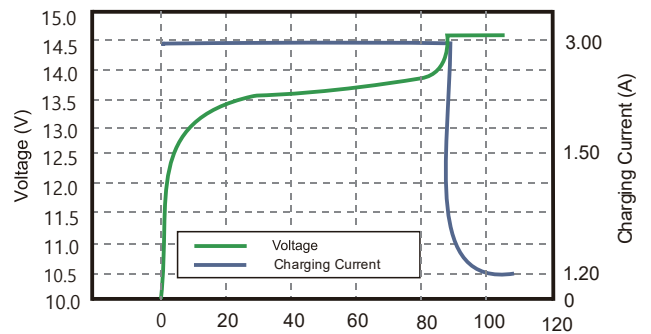
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @1C, 25°C



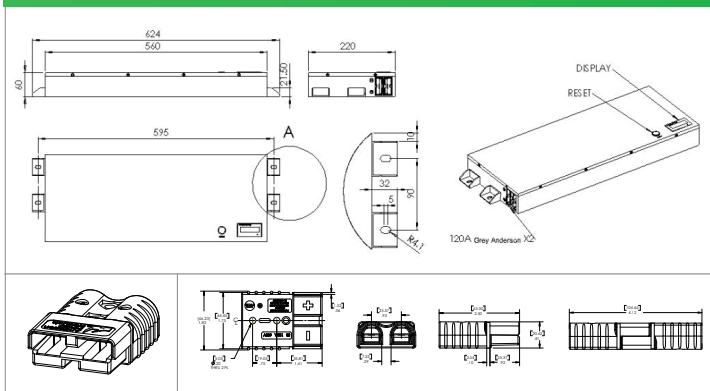
STATE OF CHARGE CURVE @0.5C, 25°C



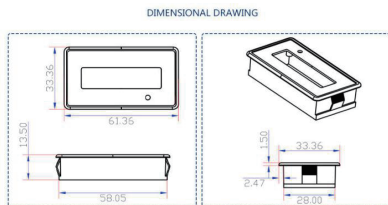
CHARGING CHARACTERISTICS @0.5C, 25°C



Battery Dimension



SOC LCD Display



LCD Indicator:

The Meter can display battery capacity and battery Voltage. Switch button: The function key can switch to check Capacity Percentage. Voltage and display On / Off.



Capacity Percentage
Voltage
Display On / Off

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
- + Passenger Vehicles



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.



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

