# V-LFP-12-120FT

# LITHIUM IRON PHOSPHATE BATTERY

## **PERFORMANCE**

o Long Cycle Life>2000cycles @100% DOD.

\*)) BLUE TOOTH

- o High Density, High Discharge Current, High Temperature Range.
- o Low Weight, Maintenance Free.
- o Fast Charging.
- o Environment Friendly.

# **BATTERY DATA SHEET**

Electrical Parameters		
Nominal Voltage	12.8V	
Rated Capacity	120Ah	
Energy	1536Wh	
Resistance	<b>≤30m</b> 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	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	
	KC	
	BIS	
Shipping Classification	UN3480, Class 9, UN38.3	

# **FEATURES**

- o Lithium Iron Phosphate (LiFePO4)
- Integrated Battery Management System(BMS)
- o BMS with Intelligent Cell Balancing
- o Sealed ABS Plastic Housing
- o Bluetooth

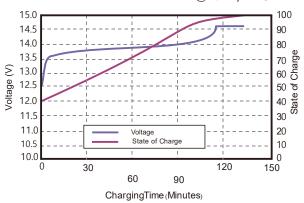
Mechanical Parameters		
Dimension(L x W x H)	395 x110 x 286 mm	
	15.55 x 4.33 x 11.26"	
Weight	12.9kg(28.44lbs)	
Terminal Type	M8	
Battery Housing	ABS, UL-94 V-0	
Housing Protection	IP65	
Cell Type-Chemistry	LiFePO4 Cell	
SOC Display(Optional)	None	

Charge Parameters		
Charge Method	CC-CV	
Charge Voltage	14.4~14.8V	
Recommended Float Voltage	13.8V	
Recommended Charge Current	60A	
Maximum Charge Current	100A	
BMS Charge Cut-off Voltage	15.6V	

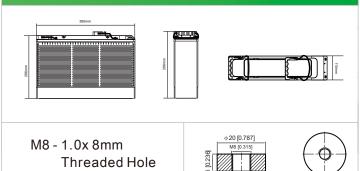
Temperature Parameters	
Discharge Temperature	-20 to 60℃ (-4 to 140°F)
Charge Temperature	0 to 45℃ (32 to 113°F)
Storage Temperature	-25 to 60°C(-13 to 140°F)
BMS Low Temperature Cut-off	-10°C(14 f̂)
BMS Low Temperature Turn-On	0°C (32°F)
BMS High Temperature Cut-off	65°C(176°F)
BMS High Temperature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

#### CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD) DISCHARGE@0.1C, 25°C Remaining Capacity (%) **-** 30% 90 50% 80% 100% 70 2000 3000 4000 5000 6000 1000 7000 Number of Cycles

#### STATE OF CHARGE CURVE @0.5C, 25℃



### **Battery Dimension**



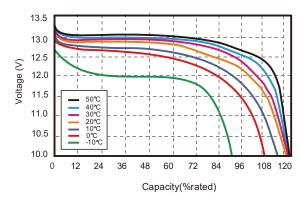


View live data with the intelligent Fusion Lithium Bluetooth 4.0 BLE technology.

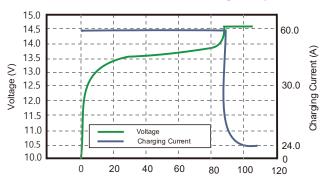
Find the identification code on top of Fusion Lithium battery. Open the Fusion Lithium App and click relevant code to connect.

- Access your BMS independently with multiple batteries
- Monitor the status of your lithium battery: State Of Charge (SOC), Temperature, charging or discharging current, etc
- Track the Cycle Life of your Lithium Battery
- Assess what protections have been triggered

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



#### CHARGING CHARACTERISTICS @0.5C, 25℃



# **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

























