BSLBATT®
Best Solution Lithium Battery

Floor Cleaning Machine LiFePO4Battery

B-LFP24-135FM



MODEL B-LFP24-135FM
NOMINAL VOLTAGE 25.6V
NOMINAL CAPACITY 135Ah
CELL CHEMISTRY Lithium Iron Phosphate (LiFePO4)
CYCLE LIFE ≥4000 cycles at 25℃, 0.5C rate, 80% DOD to 80% of initial capacity

SAFETY & INTELLIGENCE
- Continuous voltage, current, and temperature monitoring
- Six redundant safety protections using Level 4 fuses.
- Multiple battery isconnects and Microprocessors
- CAN-Bus Communication
- SOC can check the power at any time
- Bluetooth@ (MOS solution)

PHYSICAL SPECIFICATIONS

Dimensions L*W*H Inches (MM)	17.56*13.11*8.74(446*333*222)
Weight (KG)	45
Terminal Type	M8
Protection Level	IP65
Shell Material	iron
Handle Material	Metal
Calendar Life	12years 25℃，SOC 100% ,EOL 80%
Battery pack factory SOC	50%
Battery SOC operating range	0-100%

ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	25.6
Operating Voltage	20V to 29.2V Battery Cell:2.5 ~3.65
Capacity AMP Hours (AH)	135 Ah
Energy (WH)	3,456 Wh
Self-Discharge	1-3% per month
Battery Group Solution	8S1P A boxful

TEMPERATURE SPECIFICATIONS

Discharge Temperature Range	-4°F to 140°F (-20℃ to 60℃)
Charge Temperature Range	32°F to 131°F (0℃ to 55℃)
Storage Temperature Range	-4°F to 140°F (-20℃ to 60℃)

PHYSICAL PRECISION

Insulation requirements	≥20MΩ/1000VDC 25℃±5℃ RH50%
Unit voltage acquisition accuracy	±5mV Capture every single monomer
Balanced current	30mA ±10 passive balance
BMS power consumption	≤3W
Temperature acquisition accuracy	±2℃
SOC theoretical estimation accuracy	±5%
Current acquisition accuracy	≤ ± 0.5% FSR

SAFETY AND FEATURES

Protection function	Short Cicuit Protection Overheat Protection Overcharge Protection	Over-discharge Protection Overcurrent Protection Real-time Temperature Monitoring
Battery Insurance	PICC	
Battery case function	Switch sleep button Pressure relief valve	
Battery certification	UL/CE/IEC/UN38.3	

DISCHARGE SPECIFICATIONS Perormance and System @77°F (25℃)

Maximum Continuous Discharge Current	100A
Maximum Pulse Discharge Current (30 sec)	200A

CHARGING SPECIFICATIONS

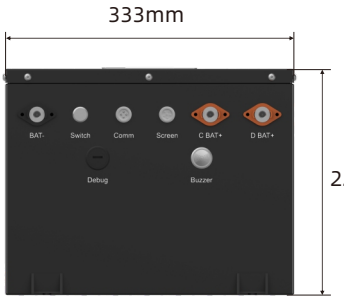
Recommended Standard Charger Current	≤40.5A	
Maximum Continuous Charging Current	67.5A	50°F~113°F (10℃~45℃), 5% < SOC < 80%
Maximum instantaneous charging current (1S)	94.5A	50°F~113°F (10℃~45℃), 5% < SOC < 80%

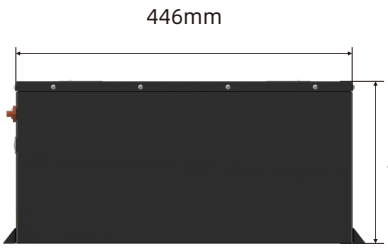
www.lithium-battery-factory.com / www.bslbatt.com

Designed and finally processed by China
BSLBATT Battery Company, the batteries are manufactured in China.

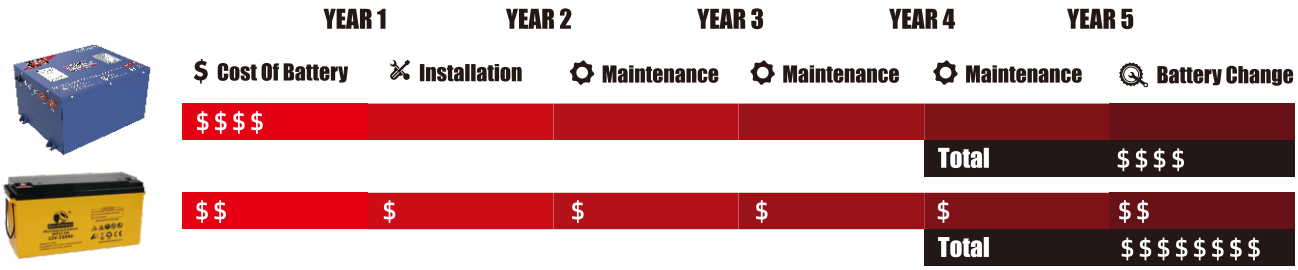
All data based on the BSLBATT standard test procedure on a flat road







FIVE YEAR COST COMPARISON BETWEEN BSLBATT & LEAD ACID BATTERIES



STRUCTURAL DIFFERENCES IN THE BSLBATT FLOOR CLEANING MACHINE SERIES

Each Cell Is Encased In Aluminum
Provides dimensional stability

Steel Battery Bracket
Provides vibration and shock resistance

External Heat Sink Keeps
BMS cool by providing heat dissipation to outside

BMS Bolted To Heat Sink
Reduces vibration and prevents accidental faults due to vibration and it extends battery life

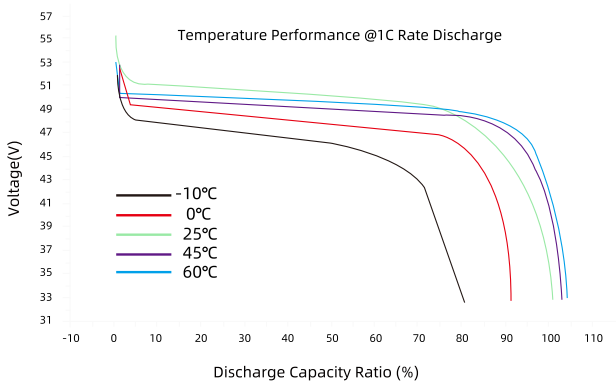
Bolted Connections To BMS
Provides stable mechanical and electrical connections

Positive And Negative BusBar
Creates an exceptional current collector

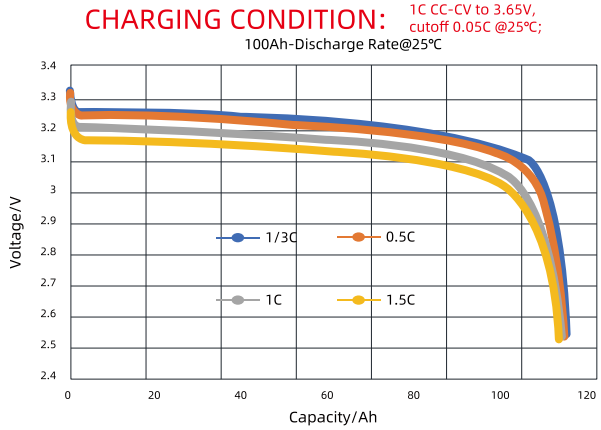
IP65 Rated Casing
Ensures water, dust and splash-resistance

TECHNICAL BSLBATT LITHIUM CURVE

ENVIRONMENT TEMPERATURE:25℃



CHARGING CONDITION: 1C CC-CV to 3.65V, cutoff 0.05C @25℃;



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