BSLBATT®
Best Solution Lithium Battery

# Floor Cleaning Machine LiFePO4Battery

# B-LFP24-100FM




**MODEL** B-LFP24-100FM
**NOMINAL VOLTAGE** 25.6V
**NOMINAL CAPACITY** 100Ah
**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) | 15.75*12.80*8.46(400*325*215) |
| Weight (KG) | 35 |
| 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) | 100 Ah |
| Energy (WH) | 2,560 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<br>Overheat Protection<br>Overcharge Protection | Over-discharge Protection<br>Overcurrent Protection<br>Real-time Temperature Monitoring |
| Battery Insurance | PICC | |
| Battery case function | Switch sleep button<br>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

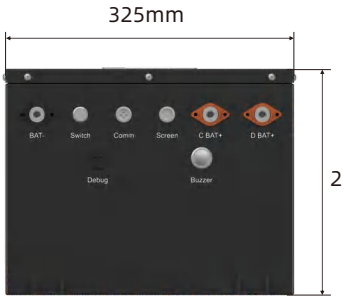
| | | |
|---|---|---|
| Recommended Standard Charger Current | ≤30A | |
| Maximum Continuous Charging Current | 50A | 50°F~113°F (10℃~45℃), 5% < SOC < 80% |
| Maximum instantaneous charging current (1S) | 70A | 50°F~113°F (10℃~45℃), 5% < SOC < 80% |

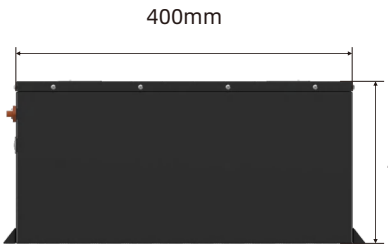
www.lithium-battery-factory.com / www.bslbatt.com

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





| | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
|---|---|---|---|---|---|
| | $ Cost Of Battery | Installation | Maintenance | Maintenance | Maintenance | Battery Change |
| | $ $ $ $ | | | | |
| | | | | Total | $ $ $ $ |
| | $ $ | $ | $ | $ | $ | $ $ |
| | | | | Total | $ $ $ $ $ $ $ $ |

## 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

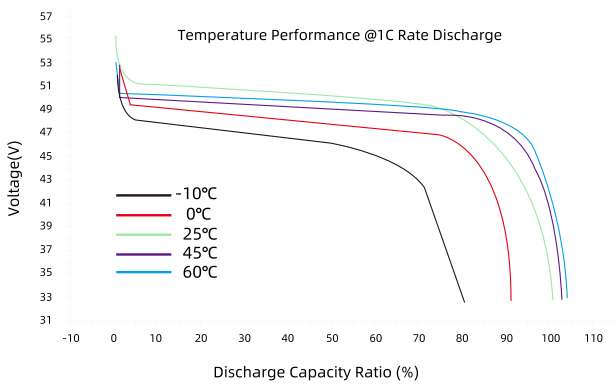
**Bolted Connections To BMS**
- Provides stable mechanical and electrical connections

**Positive And Negative BusBar**
- Creates an exceptional current collector

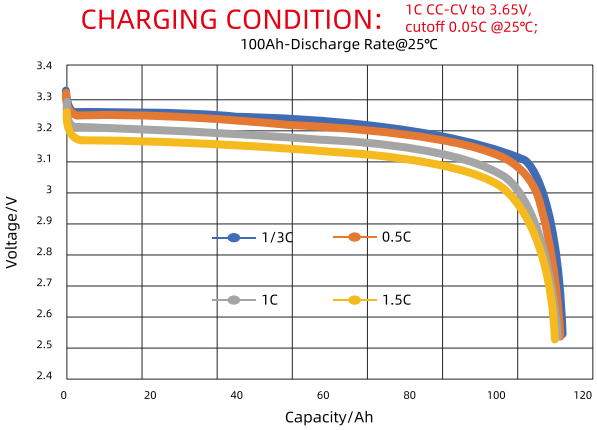
**IP65 Rated Casing**
- Ensures water, dust and splash-resistance

## TECHNICAL BSLBATT LITHIUM CURVE

ENVIRONMENT TEMPERATURE:25℃




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




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