

Floor Cleaning Machine

LiFePO4 Battery

B-LFP-36-105



| | |
|-------------------------|--|
| MODEL | B-LFP-36-105FM |
| NOMINAL VOLTAGE | 38.4V |
| NOMINAL CAPACITY | 105AH |
| CELL CHEMISTRY | Lithium Iron Phosphate (LiFePO4) |
| CYCLE LIFE | ≥4000 cycles at 25°C, 0.5C rate, 80% DOD to 80% of initial capacity |

| | |
|----------------------------------|---|
| SAFETY & INTELLIGENCE | <ul style="list-style-type: none"> Continuous voltage, current, and temperature monitoring Six redundant safety protections using Level 4 fuses. Multiple battery disconnects and Microprocessors CAN-Bus Communication SOC can check the power at any time Bluetooth® (MOS solution) |
|----------------------------------|---|

PHYSICAL SPECIFICATIONS

| | |
|------------------------------|----------------------------------|
| Dimensions L*W*H Inches (MM) | 17.3*13.1*8.7 (440*333*222) |
| Weight LBS (KG) | 92.1 (41) |
| Terminal Type | M8 |
| Protection Level | IP54 |
| Shell Material | iron |
| Handle Material | Metal |
| Calendar Life | 12years 25°C · SOC 100% ,EOL 80% |
| Battery pack factory SOC | 50% |
| Battery SOC operating range | 0-100% |

PHYSICAL PRECISION

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

DISCHARGE SPECIFICATIONS Performance and System @77°F (25°C)

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|--|----|
| Maximum Continuous Discharge Current | 1C |
| Maximum Pulse Discharge Current (30 sec) | 2C |

ELECTRICAL SPECIFICATIONS

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|-------------------------|---------------------------------------|
| Nominal Voltage (V) | 38.4 |
| Operating Voltage | 30V to 48.3V Battery cell: 2.5V~3.65V |
| Capacity AMP Hours (AH) | 105AH |
| Energy (WH) | 4,032 Wh |
| Self-Discharge | 1-3% per month |
| Battery Group Solution | 12S1P A boxful |

TEMPERATURE SPECIFICATIONS

| | |
|-----------------------------|-------------------------------|
| Discharge temperature range | -4°F to 140°F (-20°C to 60°C) |
| Charge Temperature Range | 32°F to 131°F (0°C to 55°C) |
| Storage Temperature Range | -4°F to 140°F (-20°C to 60°C) |

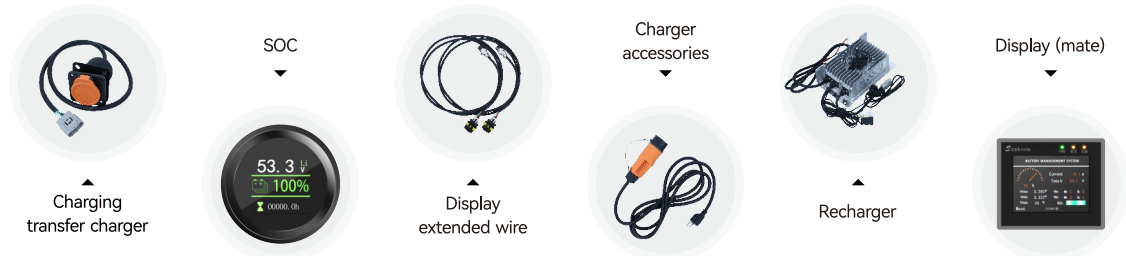
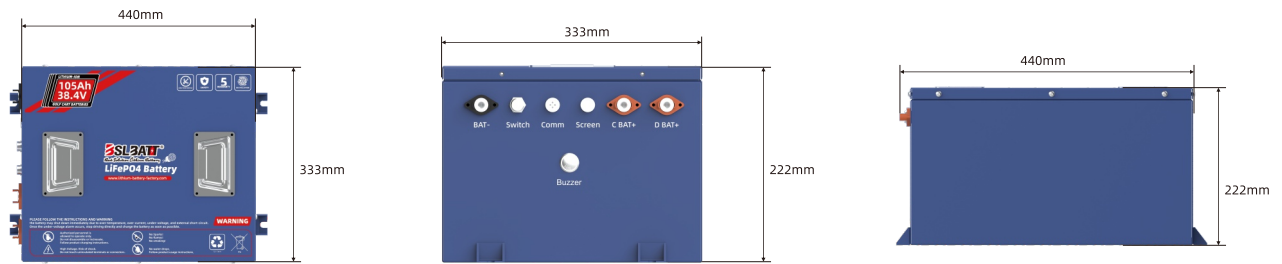
SAFETY AND FEATURES

| | | |
|-----------------------|--|---|
| Protection function | Short Circuit 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 | |



CHARGING SPECIFICATIONS

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|--|--|
| Recommended Standard Charger Current | ≤30A |
| Maximum Continuous Charging Current | 50A 50°F~113°F (10°C~45°C) · 5% < SOC < 80% |
| Maximum instantaneous charging current (10S) | 100A 50°F~113°F (10°C~45°C) · 5% < SOC < 80% |





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

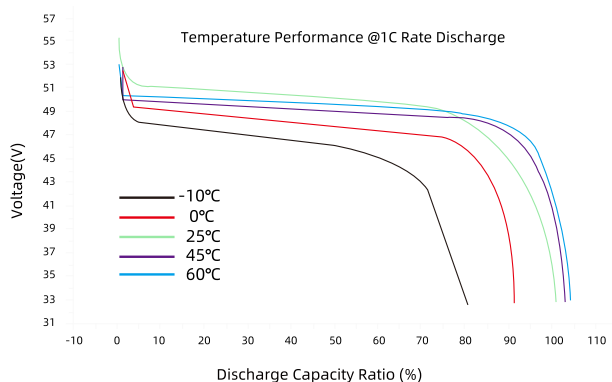
- ✓ Creates an exceptional current collector

Ip54 Rated Casing

- ✓ Ensures water, dust and splash-resistance

TECHNICAL BSLBATT LITHIUM CURVE

ENVIRONMENT TEMPERATURE:25°C



CHARGING CONDITION: 1C CC-CV to 3.65V, cutoff 0.05C @25°C; 100Ah-Discharge Rate@25°C

