

Floor Cleaning Machine

LiFePO4 Battery

B-LFP-24-100



MODEL	B-LFP-24-100FM
NOMINAL VOLTAGE	25.6V
NOMINAL CAPACITY	100Ah
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**
- 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)	15.8*12.8*8.5 (400*325*215)
Weight LBS (KG)	64 (29)
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	≥20MQ/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)

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

ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	25.6
Operating Voltage	20V to 29.2V Battery Cell:2.5V~3.65
Capacity AMP Hours (AH)	100Ah
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°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)

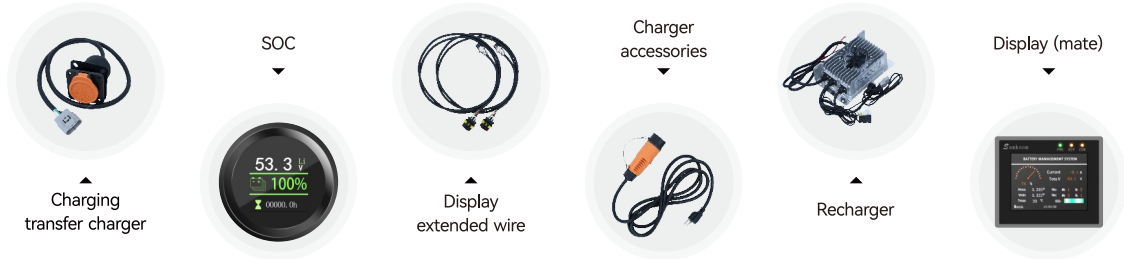
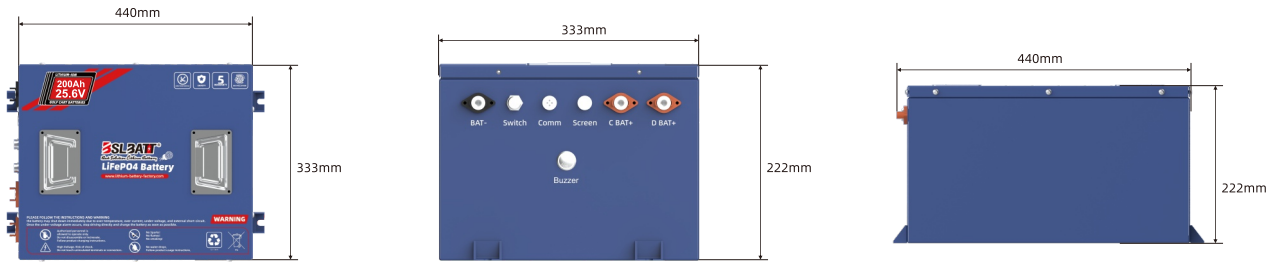
SAFETY AND FEATURES

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

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					\$\$\$\$
\$ Cost Of Battery	\$\$	\$	\$	\$	\$
✂ Installation					
⚙ Maintenance					
⚙ Maintenance					
⚙ Maintenance					
🔍 Battery Change					
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

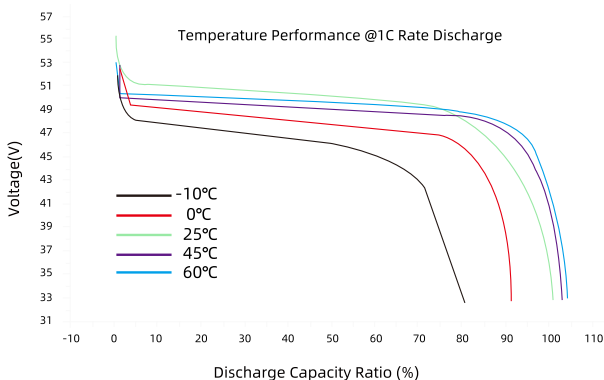
- ✔ Creates an exceptional current collector

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

