BSLBATT®
Best Solution Lithium Battery

Floor Cleaning Machine LiFePO4Battery

B-LFP36-105FM



MODEL	B-LFP36-105FM
NOMINAL VOLTAGE	38.4V
NOMINAL CAPACITY	105Ah
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)	17.13*12.99*10.55 (435*330*268)
Weight (KG)	37.5
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)	38.4
Operating Voltage	30V to 43.8V Battery Cell:2.5~3.65
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℃ 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 Potection 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	52.5A
Maximum Pulse Discharge Current (10 sec)	150A

CHARGING SPECIFICATIONS

Recommended Standard Charger Current	≤30A	
Maximum Continuous Charging Current	52.5A	50°F~113°F(10℃~45℃),5% < SOC < 80%
Maximum instantaneous charging current (1S)	78A	50°F~113°F(10℃~45℃),5% < SOC < 80%

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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