

Floor Cleaning Machine

LiFePO4 Battery

B-LFP24-105FM



MODEL	B-LFP24-105FM
NOMINAL VOLTAGE	25.6V
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	- 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)
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PHYSICAL SPECIFICATIONS

Dimensions L*W*H Inches (MM)	14.57*12.99*10.63(370*330*270)
Weight (KG)	25
Terminal Type	M8
Protection Level	IP65
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)

Maximum Continuous Discharge Current	105A
Maximum Pulse Discharge Current (10 sec)	205A

ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	25.6
Operating Voltage	20V to 29.2V Battery Cell:2.5 ~3.65
Capacity AMP Hours (AH)	105Ah
Energy (WH)	2,688 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	52.5A 50°F~113°F(10°C~45°C),5% < SOC < 80%
Maximum instantaneous charging current (1S)	78A 50°F~113°F(10°C~45°C),5% < SOC < 80%

