

Floor Cleaning Machine

LiFePO4 Battery

B-LFP36-72FM



MODEL B-LFP36-72FM
NOMINAL VOLTAGE 38.4V
NOMINAL CAPACITY 72Ah
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)

PHYSICAL SPECIFICATIONS

Dimensions L*W*H Inches (MM)	14.57*15.12*9.65(370*384*245)
Weight (KG)	30
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	36A
Maximum Pulse Discharge Current (10 sec)	144A

ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	38.4
Operating Voltage	30V to 43.8V Battery Cell:2.5~3.65
Capacity AMP Hours (AH)	72Ah
Energy (WH)	2,765 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

Recommended Standard Charger Current	≤20A
Maximum Continuous Charging Current	36A 50°F~113°F(10°C~45°C),5% < SOC < 80%
Maximum instantaneous charging current (1S)	54A 50°F~113°F(10°C~45°C),5% < SOC < 80%

