BSLBATT®
Best Solution Lithium Battery

GOLF LiFePO4 Battery

B-LFP-48-168



MODEL	B-LFP48-168GC-A
NOMINAL VOLTAGE	51.2V
NOMINAL CAPACITY	168AH
CELL CHEMISTRY	Lithium Iron Phosphate (LiFePO4)
CYCLE LIFE	≥4500 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 disconne ts and Microprocessors
- CAN-Bus Communication
- SOC can check the power at any time
- Bluetooth (Optional)

PHYSICAL SPECIFICATIONS

Dimensions L*W*H Inches (MM)	24.41*14.96*10.04 (620*380*255)
Weight LBS (KG)	158.73 (72)
Terminal Type	M8
Estimated Range: Miles (KM)	75-86 (121-138)
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%

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

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

Maximum Continuous Discharge Current	168A
Maximum Pulse Discharge Current (30 sec)	370A
Maximum Instantaneous Discharge Current (2 sec)	504A

ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	51.2
Operating Voltage	40V to 58.4V Battery cell: 2.5 ~3.65V
Capacity AMP Hours (AH)	168AH
Energy (WH)	8,601 Wh
Self-Discharge	1-3% per month
Battery Group Solution	16S1P 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℃)

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	

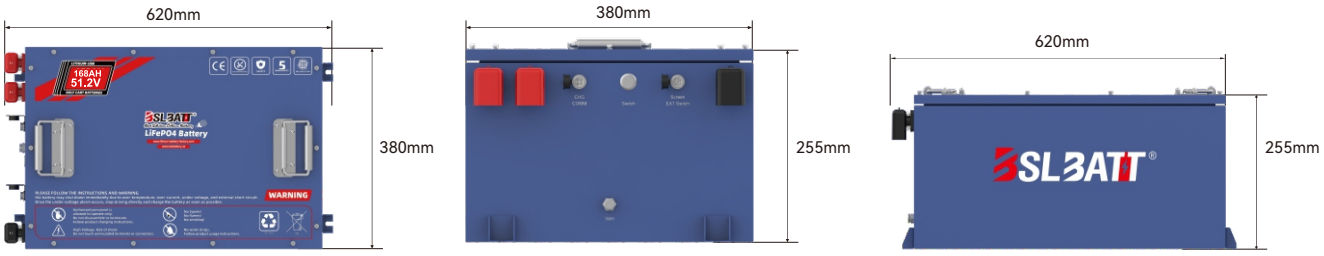
CHARGING SPECIFICATIONS

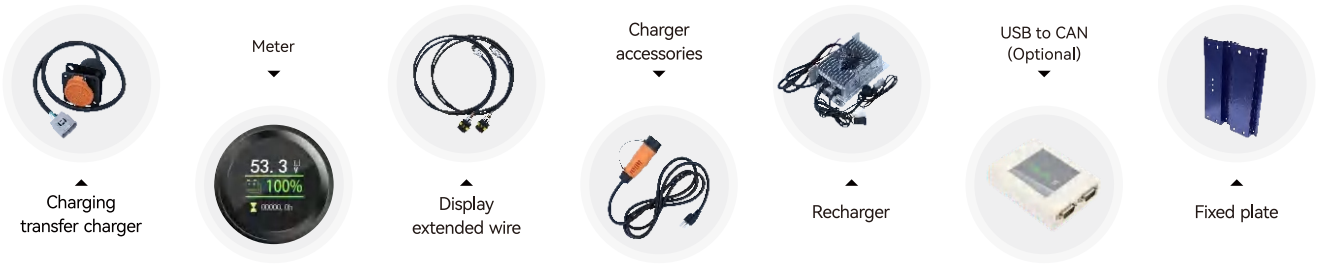
Recommended Standard Charger Current	≤50A
Maximum Continuous Charging Current	80A 50°F~113°F(10℃~45℃),5% < SOC < 80%
Maximum instantaneous charging current (10S)	168A 50°F~113°F(10℃~45℃),5% < SOC < 80%

www.lithium-battery-factory.com

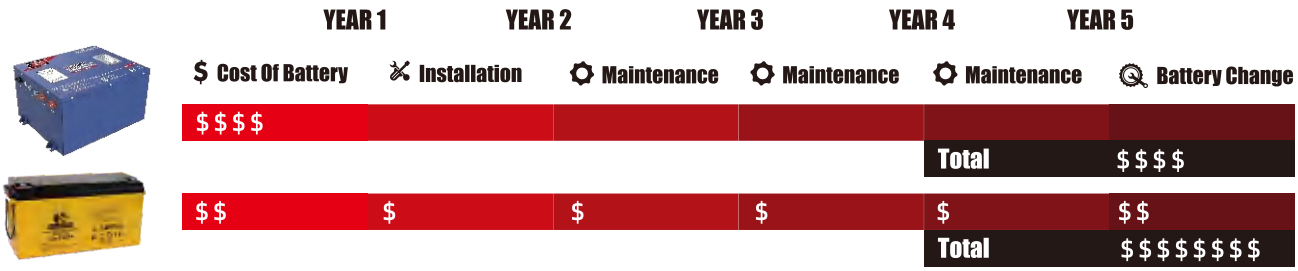
Designed and finally processed by China
BSLBATT Battery Company, the batteries are manufactured in China.

All data based on the BSLBATT standard test procedure with 2 passengers on a flat road.





FIVE YEAR COST COMPARISON BETWEEN BSLBATT & LEAD ACID BATTERIES



STRUCTURAL DIFFERENCES IN THE BSLBATT GOLF CART 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

Bolted Connections To BMS
☑ Provides stable mechanical and electrical connections

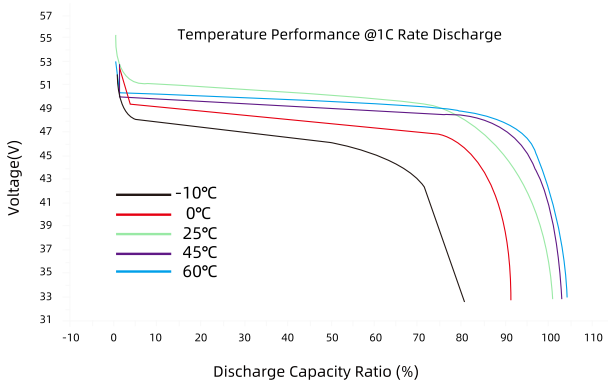
Positive And Negative BusBar
☑ Creates an exceptional current collector

Ip65 Rated Casing
☑ Ensures water, dust and splash-resistance

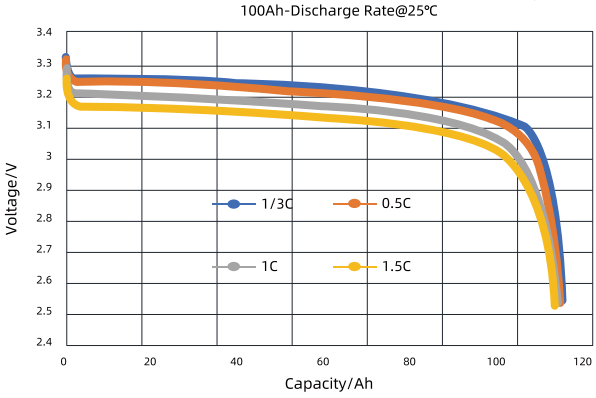
BMS Bolted To Heat Sink
☑ Reduces vibration and prevents accidental faults due to vibration and it extends battery life

TECHNICAL BSLBATT LITHIUM CURVE

ENVIRONMENT TEMPERATURE:25℃



CHARGING CONDITION: 1C CC-CV to 3.65V, cutoff 0.05C @25℃;



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