BSLBATT®
Best Solution Lithium Battery

# GOLF LiFePO4 Battery

# B-LFP-48-205

| | |
|---|---|
| **MODEL** | B-LFP-48-205GC-A |
| **NOMINAL VOLTAGE** | 51.2V |
| **NOMINAL CAPACITY** | 205AH |
| **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) | 27.76*16.54*10.04(705*420*255) |
| Weight LBS (KG) | 202 (92) |
| Terminal Type | M8 |
| Estimated Range: Miles (KM) | 80-90 (129-145) |
| 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 |

## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Nominal Voltage (V) | 51.2 |
| Operating Voltage | 40V to 58.4V Battery cell: 2.5 ~3.65V |
| Capacity AMP Hours (AH) | 205AH |
| Energy (WH) | 10,496 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<br>Overheat Protection<br>Overcharge Protection | Over-discharge Protection<br>Overcurrent Protection<br>Real-time Temperature Monitoring |
| Battery Insurance | PICC | |
| Battery case function | Switch sleep button<br>Pressure relief valve | |
| Battery certification | UL/CE/IEC/UN38.3 | |

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

| | |
|---|---|
| Maximum Continuous Discharge Current | 205A |
| Maximum Pulse Discharge Current (30 sec) | 410A |
| Maximum Instantaneous Discharge Current (2 sec) | 615A |

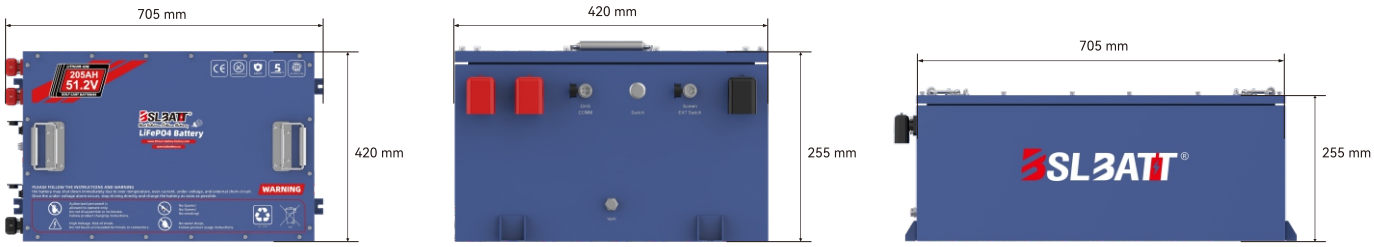
## CHARGING SPECIFICATIONS

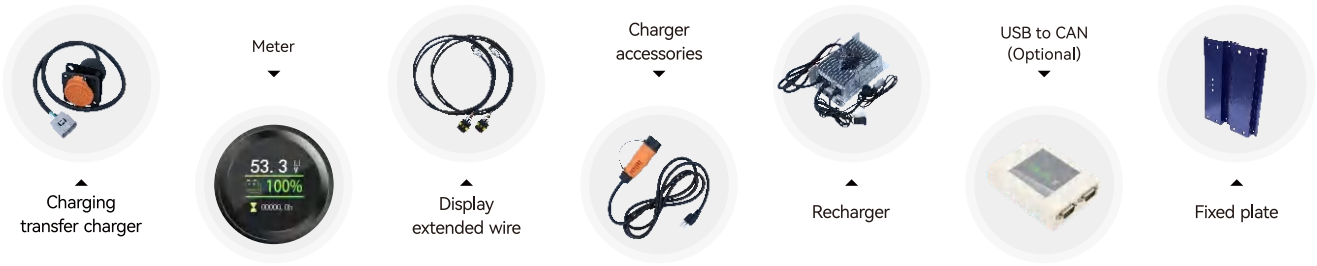
| | |
|---|---|
| Recommended Standard Charger Current | ≤60A |
| Maximum Continuous Charging Current | 100A 50°F~113°F(10℃~45℃),5% < SOC < 80% |
| Maximum instantaneous charging current (10S) | 205A 50°F~113°F(10℃~45℃),5% < SOC < 80% |

www.lithium-battery-factory.com

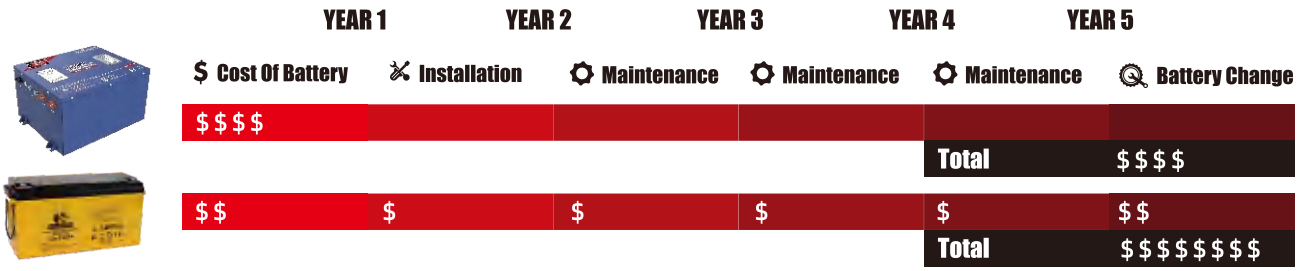
Designed and finally processed by China
BSLBATT Battery Company, the batteries are manufactured in China.

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

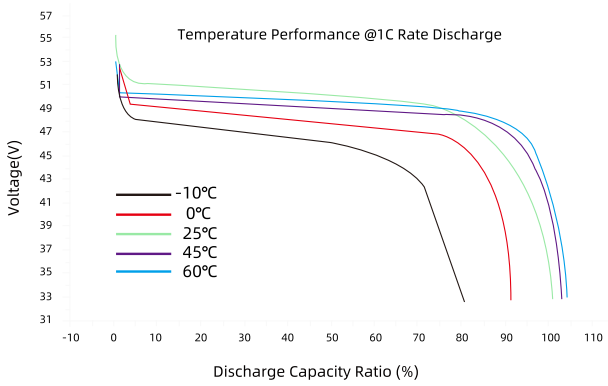
**Positive And Negative BusBar**
☑ Creates an exceptional current collector

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

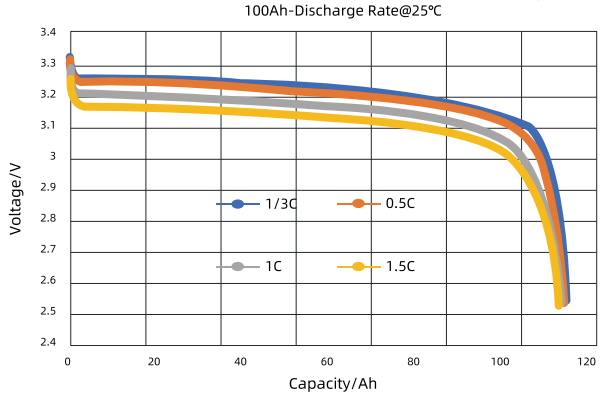
**BMS Bolted To Heat Sink**
☑ Reduces vibration and prevents accidental faults due to vibration and it extends battery life

## TECHNICAL BSLBATT LITHIUM CURVE

ENVIRONMENT TEMPERATURE:25℃




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

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