

# GOLF LiFePO4 Battery

## B-LFP-48-205



<b>MODEL</b>	B-LFP-48-205GC
<b>NOMINAL VOLTAGE</b>	51.2V
<b>NOMINAL CAPACITY</b>	205AH
<b>CELL CHEMISTRY</b>	Lithium Iron Phosphate (LiFePO4)
<b>CYCLE LIFE</b>	≥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 disconnects and Microprocessors
  - CAN-Bus Communication
  - SOC can check the power at any time
  - Bluetooth® (MOS solution)

### PHYSICAL SPECIFICATIONS

Dimensions L*W*H Inches (MM)	31.5*17.3*10.6 (800*440*270)
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°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	300A
Maximum Pulse Discharge Current (30 sec)	500A
Maximum Instantaneous Discharge Current (2 sec)	800A

### ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	51.2
Operating Voltage	40V to 58.40V Battery cell: 2.5V~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°C to 60°C)
Charge Temperature Range	32°F to 131°F (0°C to 55°C)
Storage Temperature Range	-40°F to 140°F (-40°C to 60°C)

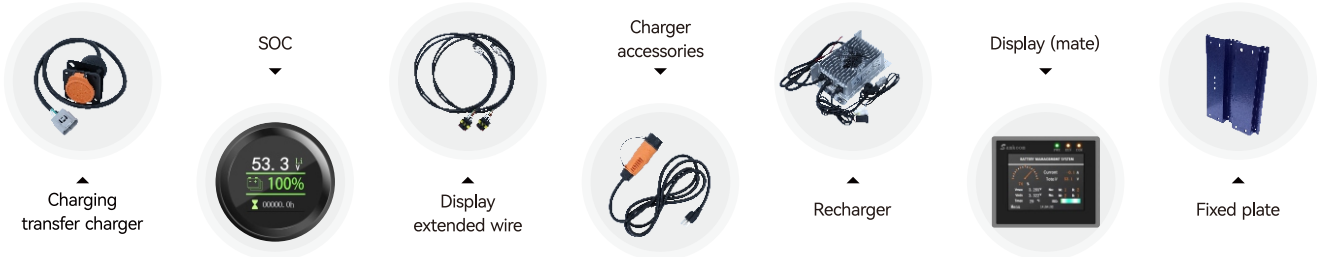
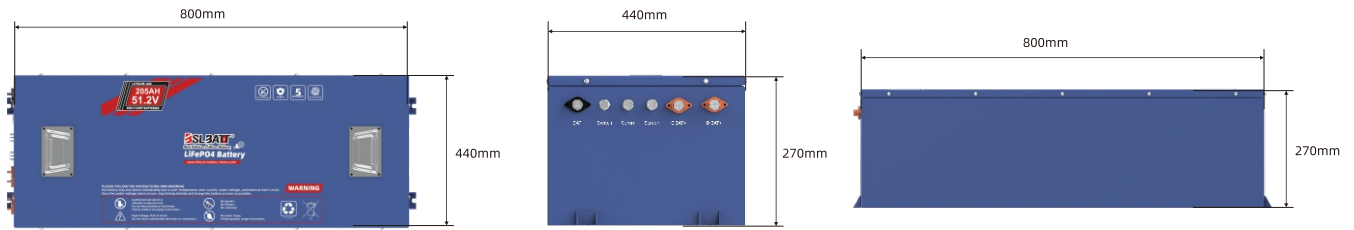
### SAFETY AND FEATURES

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/ICE/UN38.3/	

### CHARGING SPECIFICATIONS

Recommended Standard Charger Current	≤40A
Maximum Continuous Charging Current	100A 50°F~113°F (10°C~45°C) · 5% < SOC < 80%
Maximum instantaneous charging current (10S)	150A 50°F~113°F (10°C~45°C) · 5% < SOC < 80%





### FIVE YEAR COST COMPARISON BETWEEN BSLBATT & LEAD ACID BATTERIES

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	
<b>BSLBATT</b>	\$ Cost Of Battery	✂ Installation	⚙ Maintenance	⚙ Maintenance	⚙ Maintenance	🔍 Battery Change
	\$\$\$\$					
					<b>Total</b>	\$\$\$\$
<b>Lead Acid</b>	\$ \$	\$	\$	\$	\$	\$ \$
					<b>Total</b>	\$ \$ \$ \$ \$ \$ \$ \$

### 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

#### BMS Bolted To Heat Sink

✔ Reduces vibration and prevents accidental faults due to vibration and it extends battery life

#### Bolted Connections To BMS

✔ Provides stable mechanical and electrical connections

#### Positive And Negative BusBar

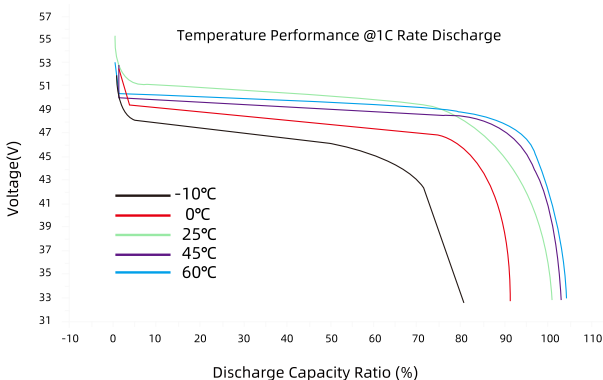
✔ Creates an exceptional current collector

#### Ip65 Rated Casing

✔ Ensures water, dust and splash-resistance

### TECHNICAL BSLBATT LITHIUM CURVE

#### ENVIRONMENT TEMPERATURE: 25°C



#### CHARGING CONDITION: 1C CC-CV to 3.65V, cutoff 0.05C @25°C; 100Ah-Discharge Rate@25°C

