

# GOLF LiFePO4 Battery

## B-LFP-48-52



|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| <b>MODEL</b>            | B-LFP-48-52GC                                                          |
| <b>NOMINAL VOLTAGE</b>  | 51.2V                                                                  |
| <b>NOMINAL CAPACITY</b> | 52AH                                                                   |
| <b>CELL CHEMISTRY</b>   | Lithium Iron Phosphate (LiFePO4)                                       |
| <b>CYCLE LIFE</b>       | ≥4000 cycles at 25°C, 0.5C rate,<br>80% DOD to 80% of initial capacity |

|                                  |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SAFETY &amp; INTELLIGENCE</b> | <ul style="list-style-type: none"> <li>Continuous voltage, current, and temperature monitoring</li> <li>Six redundant safety protections using Level 4 fuses.</li> <li>Multiple battery disconnects and Microprocessors</li> <li>CAN-Bus Communication</li> <li>SOC can check the power at any time</li> <li>Bluetooth® (MOS solution)</li> </ul> |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### PHYSICAL SPECIFICATIONS

|                              |                                  |
|------------------------------|----------------------------------|
| Dimensions L*W*H Inches (MM) | 13*13.1*8.7 (330*333*222)        |
| Weight LBS (KG)              | 61.7(28)                         |
| Terminal Type                | M8                               |
| Estimated Range: Miles (KM)  | 20-25 (32-40)                    |
| 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            | 70A  |
| Maximum Pulse Discharge Current (30 sec)        | 130A |
| Maximum Instantaneous Discharge Current (2 sec) | 200A |

### ELECTRICAL SPECIFICATIONS

|                         |                                       |
|-------------------------|---------------------------------------|
| Nominal Voltage (V)     | 51.2                                  |
| Operating Voltage       | 40V to 58.4V Battery cell: 2.5V~3.65V |
| Capacity AMP Hours (AH) | 52AH                                  |
| Energy (WH)             | 2,662 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   | -4°F to 140°F (-20°C to 60°C) |

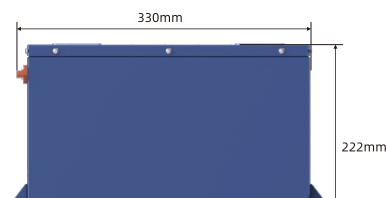
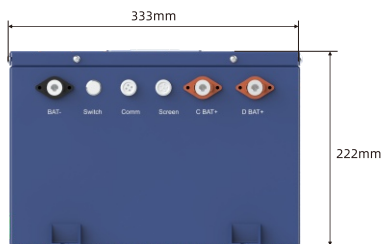
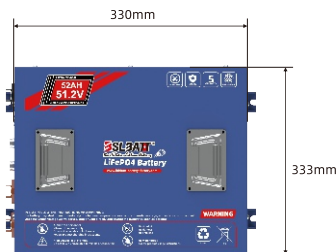
### SAFETY AND FEATURES

|                       |                                                                          |                                                                                         |
|-----------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 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                                                         |                                                                                         |

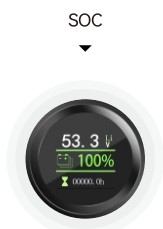
### CHARGING SPECIFICATIONS

|                                              |                                            |
|----------------------------------------------|--------------------------------------------|
| Recommended Standard Charger Current         | ≤25A                                       |
| Maximum Continuous Charging Current          | 30A 50°F~113°F (10°C~45°C), 5% < SOC < 80% |
| Maximum instantaneous charging current (10S) | 50A 50°F~113°F (10°C~45°C), 5% < SOC < 80% |





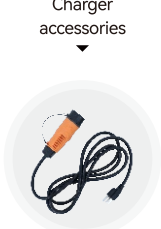
Charging transfer charger



SOC



Display extended wire



Charger accessories



Recharger



Display (mate)



Fixed plate

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

|                                                                                    | YEAR 1                    | YEAR 2                | YEAR 3               | YEAR 4               | YEAR 5               |
|------------------------------------------------------------------------------------|---------------------------|-----------------------|----------------------|----------------------|----------------------|
|   | <b>\$ Cost Of Battery</b> | <b>✂ Installation</b> | <b>⚙ Maintenance</b> | <b>⚙ Maintenance</b> | <b>⚙ Maintenance</b> |
|                                                                                    | \$\$\$\$                  |                       |                      |                      |                      |
|                                                                                    |                           |                       |                      | <b>Total</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

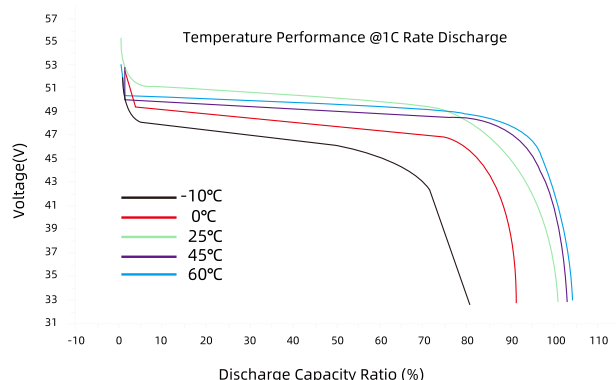
- ✓ Creates an exceptional current collector

### 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

