

# GOLF LiFePO4 Battery

## B-LFP-36-105



|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| <b>MODEL</b>            | B-LFP-36-105GC-B                                                       |
| <b>NOMINAL VOLTAGE</b>  | 38.4V                                                                  |
| <b>NOMINAL CAPACITY</b> | 105AH                                                                  |
| <b>CELL CHEMISTRY</b>   | Lithium Iron Phosphate (LiFePO4)                                       |
| <b>CYCLE LIFE</b>       | ≥4500 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 disconnections and Microprocessors</li> <li>• CAN-Bus Communication</li> <li>• SOC can check the power at any time</li> <li>• Bluetooth (Optional)</li> </ul> |
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### PHYSICAL SPECIFICATIONS

|                              |                                  |
|------------------------------|----------------------------------|
| Dimensions L*W*H Inches (MM) | 19.49*12.99*9.06(495*330*230)    |
| Weight LBS (KG)              | 92.1(41)                         |
| Terminal Type                | M8                               |
| Estimated Range: Miles (KM)  | 30~40 (48~64)                    |
| Protection Level             | IP67                             |
| 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            | 105A |
| Maximum Pulse Discharge Current (30 sec)        | 210A |
| Maximum Instantaneous Discharge Current (2 sec) | 315A |

### ELECTRICAL SPECIFICATIONS

|                         |                                       |
|-------------------------|---------------------------------------|
| Nominal Voltage (V)     | 38.4                                  |
| Operating Voltage       | 30V to 43.8V Battery cell: 2.5 ~3.65V |
| Capacity AMP Hours (AH) | 105AH                                 |
| Energy (WH)             | 4,032 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<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         | ≤30A                                        |
| Maximum Continuous Charging Current          | 50A 50°F~113°F (10°C~45°C), 5% < SOC < 80%  |
| Maximum instantaneous charging current (10S) | 105A 50°F~113°F (10°C~45°C), 5% < SOC < 80% |



