

GOLF LiFePO4 Battery

B-LFP-36-105



MODEL	B-LFP-36-105GC
NOMINAL VOLTAGE	38.4V
NOMINAL CAPACITY	105AH
CELL CHEMISTRY	Lithium Iron Phosphate (LiFePO4)
CYCLE LIFE	≥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)	17.3*13.1*8.7 (440*333*222)
Weight LBS (KG)	92.1 (41)
Terminal Type	M8
Estimated Range: Miles (KM)	30-40 (48-64)
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	≥20MQ/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	150A
Maximum Pulse Discharge Current (30 sec)	250A
Maximum Instantaneous Discharge Current (2 sec)	400A

ELECTRICAL SPECIFICATIONS

Nominal Voltage (V)	38.4
Operating Voltage	30V to 48.3V Battery cell: 2.5V~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 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	≤30A
Maximum Continuous Charging Current	50A 50°F~113°F (10°C~45°C) · 5% < SOC < 80%
Maximum instantaneous charging current (10S)	100A 50°F~113°F (10°C~45°C) · 5% < SOC < 80%



