BSLBATT®
Best Solution Lithium Battery

GOLF LiFePO4 Battery

B-LFP-48-105



MODEL	B-LFP48-105GC-A
NOMINAL VOLTAGE	51.2V
NOMINAL CAPACITY	105AH
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 disconnects and Microprocessors
- CAN-Bus Communication
- SOC can check the power at any time
- Bluetooth (Optional)

PHYSICAL SPECIFICATIONS

Dimensions L*W*H Inches (MM	22.44*12.99*9.06 (570*330*230)
Weight LBS (KG)	109.13 (49.5)
Terminal Type	M8
Estimated Range: Miles (KM)	50-60 (80-97)
Protection Level	IP67
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: 2.5V~3.65V
Capacity AMP Hours (AH)	105AH
Energy (WH)	5,376Wh
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 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	

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

Maximum Continuous Discharge Current	250A
Maximum Pulse Discharge Current (30 sec)	300A
Maximum Instantaneous Discharge Current (2 sec)	600A

CHARGING SPECIFICATIONS

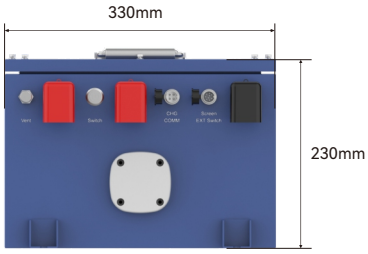
Recommended Standard Charger Current	≤30A
Maximum Continuous Charging Current	50A 50°F~113°F (10℃~45℃), 5% < SOC < 80%
Maximum instantaneous charging current (10S)	105A 50°F~113°F (10℃~45℃), 5% < SOC < 80%

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.









Charging transfer charger

Meter





Display extended wire

Charger accessories





Recharger

USB to CAN (Optional)





Fixed plate

FIVE YEAR COST COMPARISON BETWEEN BSLBATT & LEAD ACID BATTERIES





	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
	$ Cost Of Battery	Installation	Maintenance	Maintenance	Maintenance	Battery Change
	$$$$				
				Total	$$$$
	$$	$	$	$	$	$$
					Total	$$$$$$$$

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

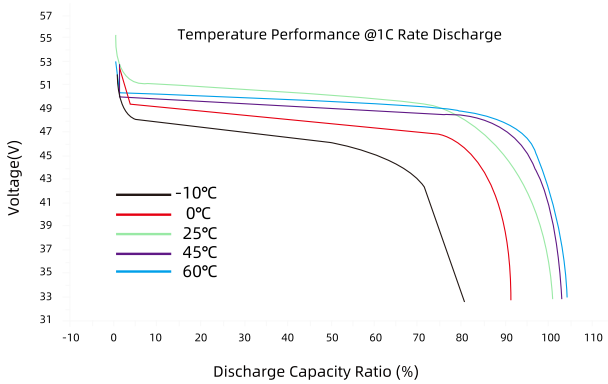
Positive And Negative BusBar
☑ Creates an exceptional current collector

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

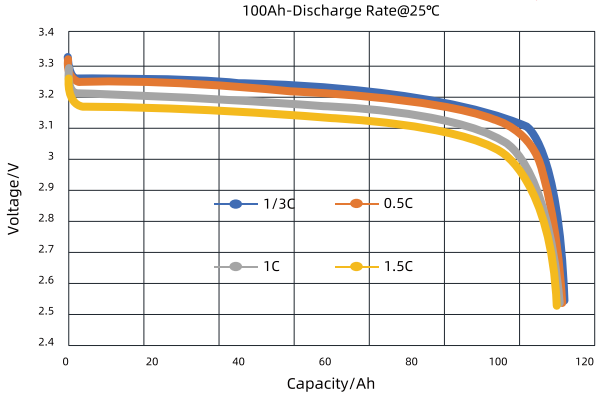
BMS Bolted To Heat Sink
☑ Reduces vibration and prevents accidental faults due to vibration and it extends battery life

TECHNICAL BSLBATT LITHIUM CURVE

ENVIRONMENT TEMPERATURE:25℃



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



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