

12.8V 100Ah LiFePO4 Battery for RV & Van, Marine & Trolling Motor, Solar & Off-Grid.



*Note: This built-in protection will reset after five seconds in most fault conditions. Disconnecting the battery from loads will also reset the BMS.

CORE TECHNICAL SPECIFICATIONS

Electrical Specifications

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Self Discharge	2-3% Per Month
Maximum Batteries in Series	4
Maximum Batteries in Parallel	4
Built-in BMS	Internal
Resistance	< 8 mΩ
Cell Chemistry	LiFePO4(Lithium Iron-Phosphate)

Charging Specifications

Recommended Charge Current	0.2C/20A
Max Charge Current	50A
BMS Charge Current Protection	100A
Recommended Charge Voltage	14.6V
Reconnect Voltage	@ 13.6V
Balancing Voltage	@ 3.55V Per Cell
Charge Protection Voltage	15V

Discharging Specifications

Max Discharge Current	100A
Discharge Surge Current	230A for 1 second
Surge for Loads Over	460A for 1 second
Recommended Low Voltage Disconnect	11.2V
BMS Discharge Cut-Off Voltage	10V
Reconnect Voltage	12V
Short Circuit Protection	Yes

Temperature Specifications

Discharge Temperature	-4°F to 158°F (-20°C to 70°C)
Charge Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	32°F to 95°F (0°C to 35°C)
Reconnect Temperature	Discharge 131 °F (55°C) Charge 104 °F (40°C)

Mechanical Specifications

Dimensions	10.21"L X 6.61"W X 8.46"H
Weight	24.5 lbs.
Terminal Type	M8
Terminal Torque	619-974in-lbs (70-110N-m)
Case Material	ABS
Waterproof Level	IP67

Integrated Heating Specifications

Heat	NA
Heating ON	NA
Heating OFF	NA
Continuous Power Draw (When Enabled)	NA
Required Minimax Charging Current	NA

Certifications

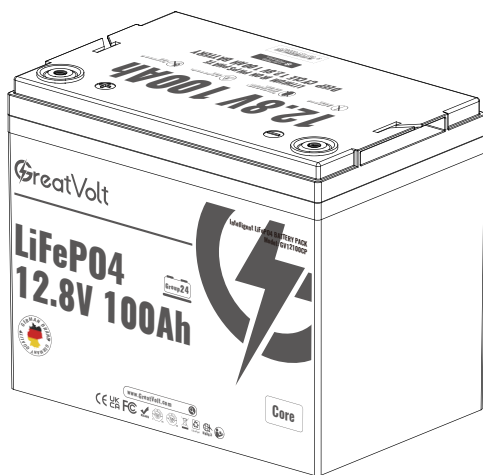
Certifications	UL1973,UL9540A,IEC62619 for cells MSDS for shipping UN38.3
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Communication Protocols

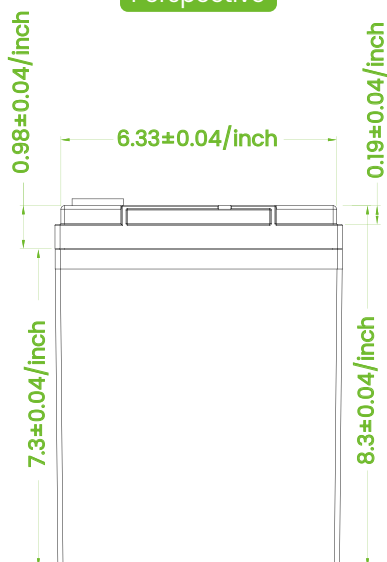
CAN	x
RS485	x
UART	x
Bluetooth	x

* Storage - Please keep the battery in the cool and dry environment: Within 1 month -5°C~35°C or Within 6 months 0°C~35°C, relative humidity ≤75%, please charge the battery pack (around 50% SOC) regularly (every 60-90 days) to keep its chemistry active and longer lifespan. Long shelf time without charging the battery, the battery may completely depleted or totally died. Please DO remove the battery from your device when battery NOT IN USE for long time.

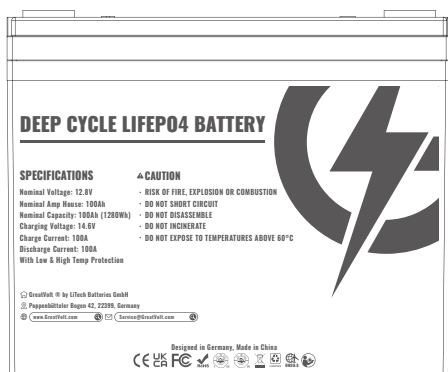
MCHANICAL DRAWING



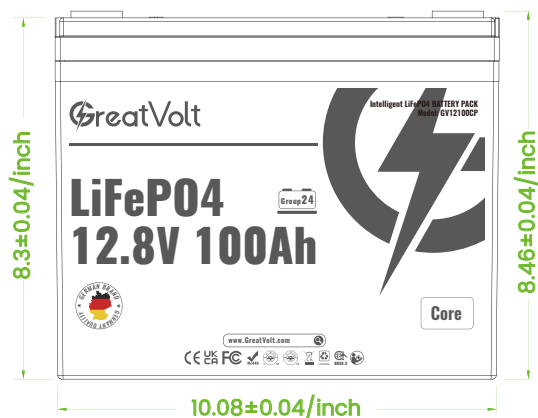
Perspective



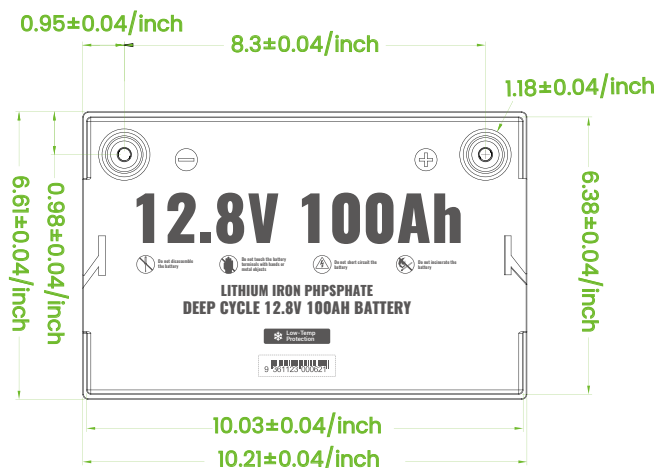
Side view



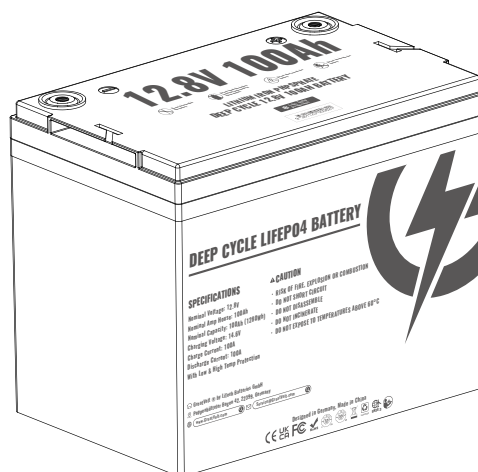
Rear view



Front view



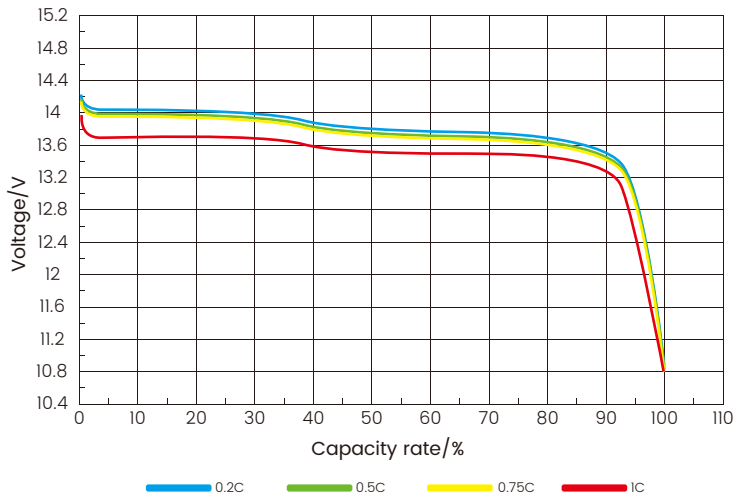
Top view



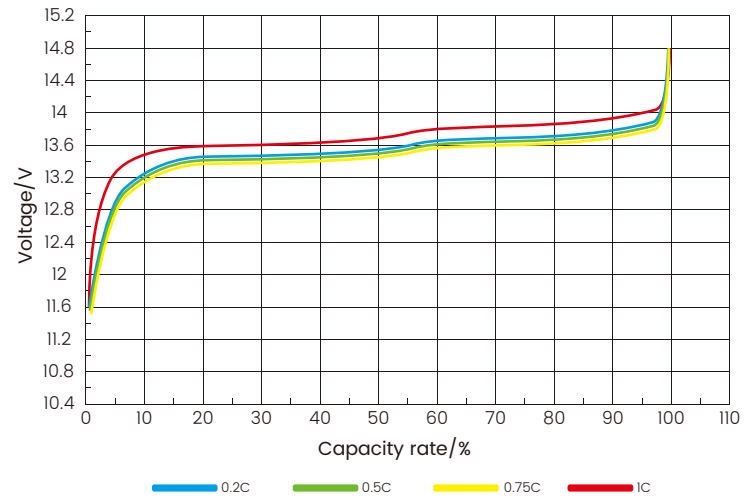
Perspective

RATE CHARGE-DISCHARGE CURVE

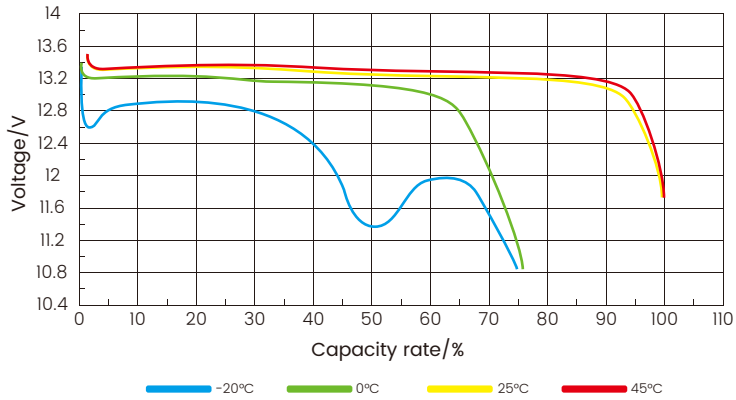
Discharge tests were performed at 25°C/77°F



Charging tests were conducted at 25°C/77°F



0.2C High and low temperature discharge



0.5C Cycle curve

