GreatVolt | Model Number: GV48314MS

Eneriq

GreatVolt Eneriq

51.2V 314Ah LiFePO4 Battery for Marine.

- IP67 Waterproof
- Long Life
- Zero Maintenance
- Ultra Safe
- Light Weight
- Full Temp Protections
- Fast Charging
- Pulg& Play

*157A continuous | 200A surge for 3 seconds | 314A surge for 2 seconds

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

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ENERIQ TECHNICAL SPECIFICATIONS

Electrical Specifications

Nominal Voltage	51.2V
Nominal Capacity	314Ah
Energy	16076.8Wh
Self Discharge	2-3% Per Month
Maximum Batteries in Series	NA
Maximum Batteries in Parallel	5
Built-in BMS	Internal
Resistance	<25 mΩ
Cell Chemistry	LiFePO4(Lithium Iron-Phosphate)

Mechanical Specifications

Dimensions	722mmL X 596mmW X 232mmH
Weight	135KG
Terminal Type	M8
Terminal Torque	619~794in-lbs(70~110N-m)
Case Material	Stainless Steel
Waterproof Level	IP67

Charging Specifications

Recommended Charge Current	0.2C/62.8A
Max Charge Current	150A
BMS Charge Current Protection	157A
Recommended Charge Voltage	58.4V
Reconnect Voltage	@ 54.5V
Balancing Voltage	@ 3.2V Per Cell
Charge Protection Voltage	60V

Integrated Heating Specifications

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

Discharging Specifications

Max Discharge Current	157A
Discharge Surge Current	200A for 3 seconds
Surge for Loads Over	314A for 2 seconds
Recommended Low Voltage Disconnect	44.8V
BMS Discharge Cut-Off Voltage	40V
Reconnect Voltage	44.8V
Short Circuit Protection	Yes

Certifications

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

Temperature Specifications

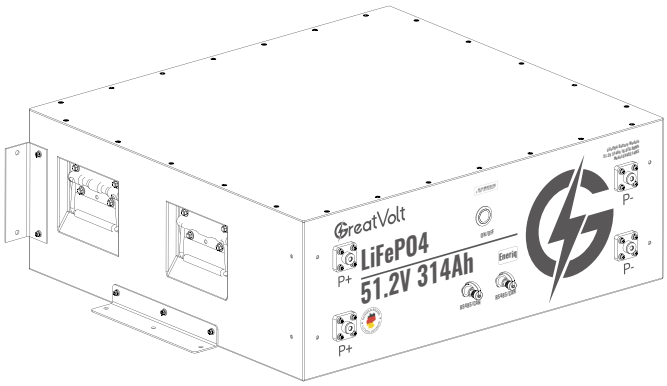
Discharge Temperature	-4°F to 149°F(-20°C to 65°C)
Charge Temperature	32°F to 122°F(0°C to 50°C)
Storage Temperature	32°F to 95°F(0°C to 35°C)
Reconnect Temperature	Discharge 131 °F (55°C) Charge 113 °F (45°C)

Communication Protocols

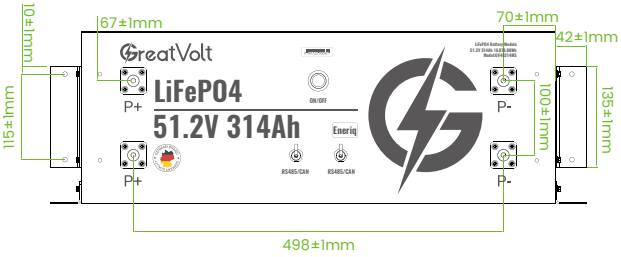
CAN	✓
RS485	✓
UART	×
Bluetooth	×

* Compatible with most major PV inverters, Such as Growatt, SRNE, MUST, Deye, GOODWE, SOFAR, Victron Energy...
* 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.

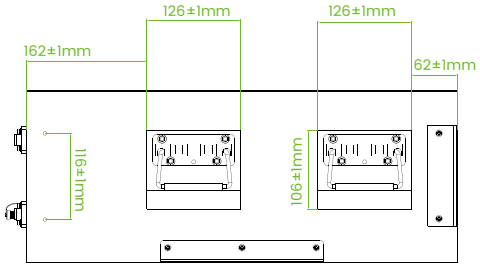
MICHANICAL DRAWING



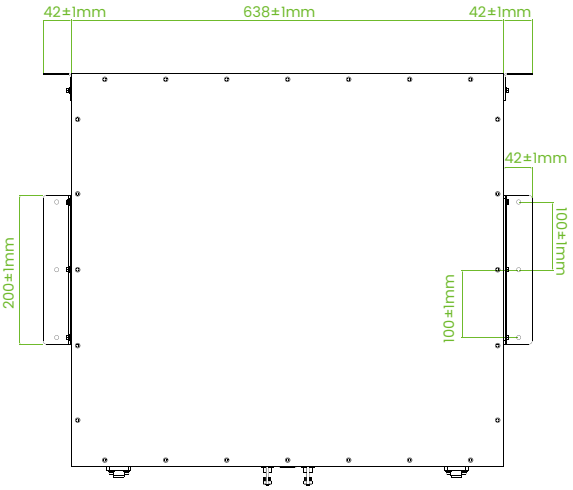
Perspective



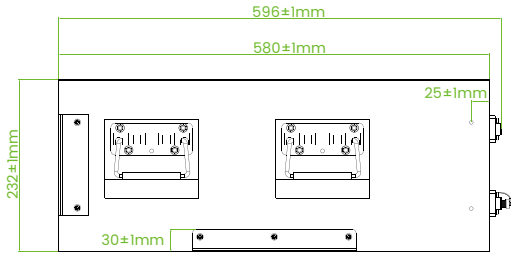
Front view



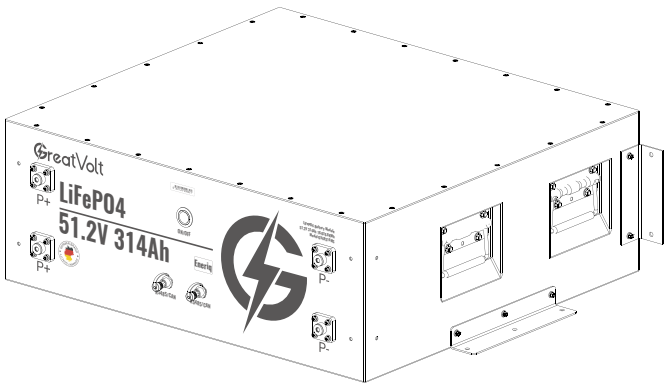
Side view



Top view



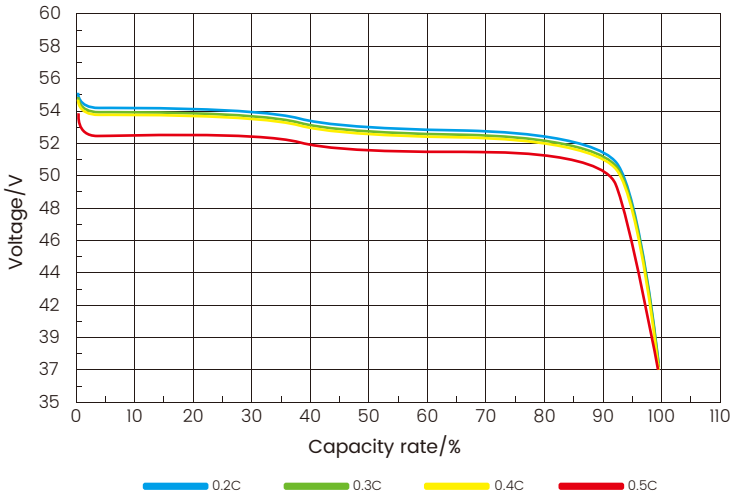
Side view



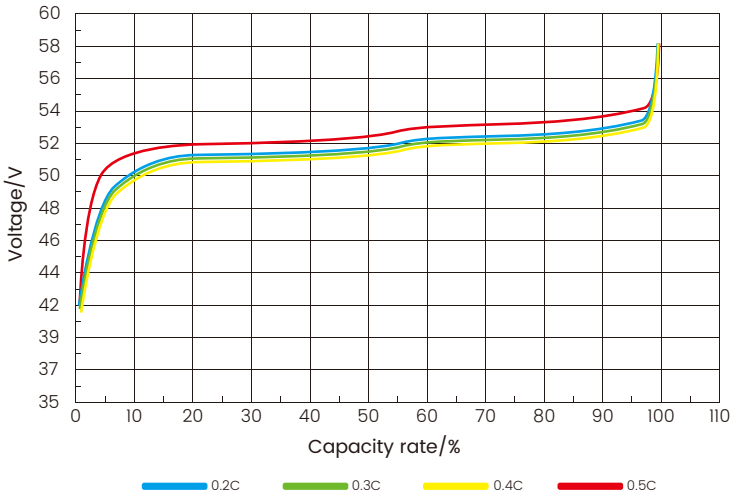
Perspective

RATE CHARGE-DISCHARGE CURVE

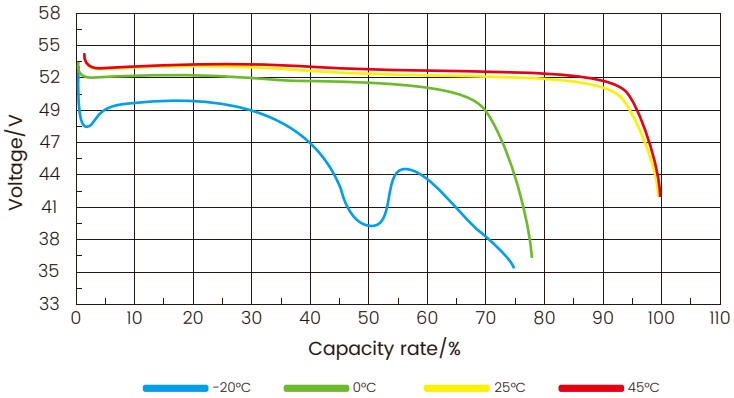
Discharge tests were performed at 25°C/77°F



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



0.2C High and low temperature discharge



0.3C Cycle curve