



## GreatVolt Quanta

51.2V 100Ah LiFePO4 Battery Energy Storage System for Solar & Off-Grid.



IP67  
Waterproof



Long  
Life



Zero  
Maintenance



Ultra  
Safe



Light  
Weight



Full Temp  
Protections



Fast  
Charging



Plug &  
Play

\*100A continuous | 120A surge for 3 seconds | 200A surge for 2 seconds

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

# QUANTA TECHNICAL SPECIFICATIONS

## Electrical Specifications

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy	5120Wh
Self Discharge	2~3% Per Month
Maximum Batteries in Series	NA
Maximum Batteries in Parallel	5
Built-in BMS	Internal
Resistance	<38 mΩ
Cell Chemistry	LiFePO4(Lithium Iron-Phosphate)

## Charging Specifications

Recommended Charge Current	0.2C/20A
Max Charge Current	50A
BMS Charge Current Protection	110A
Recommended Charge Voltage	58.4V
Reconnect Voltage	@ 54.5V
Balancing Voltage	@ 3.2V Per Cell
Charge Protection Voltage	60V

## Discharging Specifications

Max Discharge Current	100A
Discharge Surge Current	120A for 3 seconds
Surge for Loads Over	200A for 2 seconds
Recommended Low Voltage Disconnect	44.8V
BMS Discharge Cut-Off Voltage	40V
Reconnect Voltage	44.8V
Short Circuit Protection	Yes

## 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)

## Mechanical Specifications

Dimensions	520mmL X 488mmW X 167mmH
Weight	47KG
Terminal Type	ES Connector
Terminal Torque	NA
Case Material	Stainless Steel
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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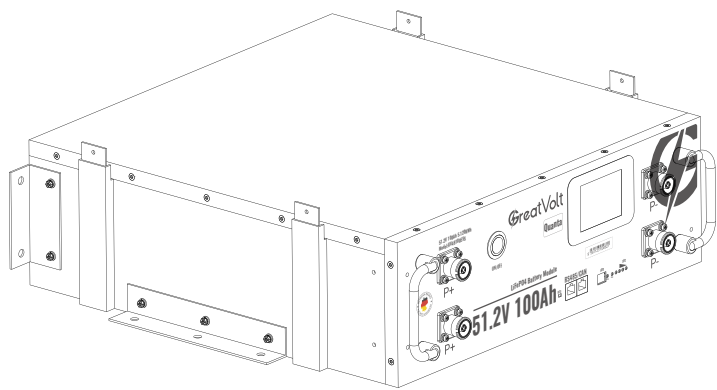
## Communication Protocols

CAN	✓
RS485	✓
UART	✗
Bluetooth	✗

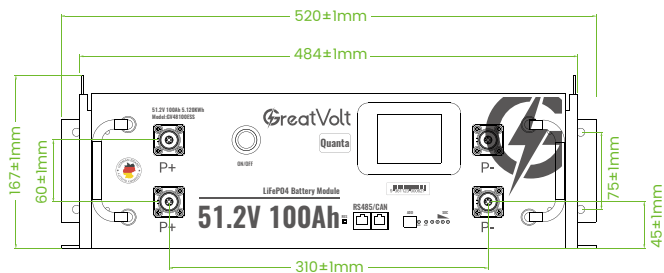
\* Compatible with most major PV inverters, Such as Growatt, SRNE, MUST, Deye, GOODWE, SOFAR, Victron Energy...

\* 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.

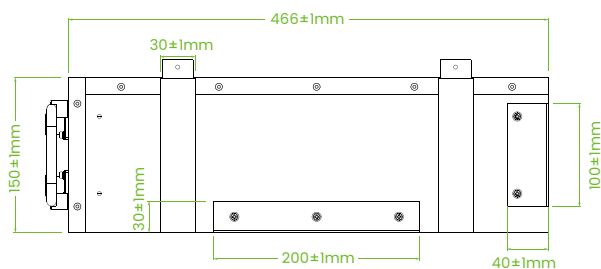
# MECHANICAL DRAWING



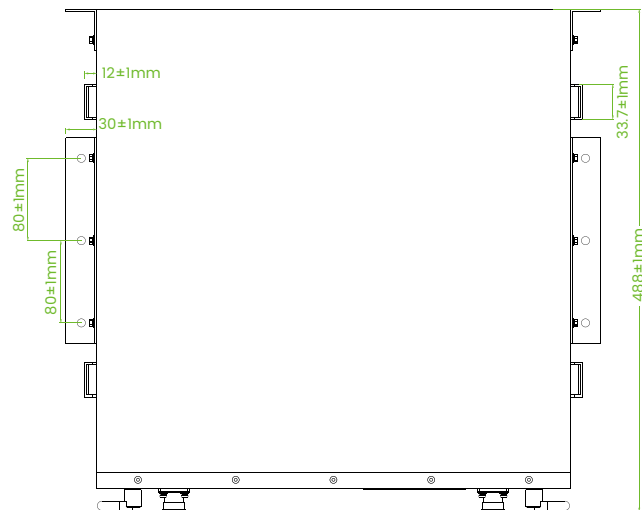
Perspective



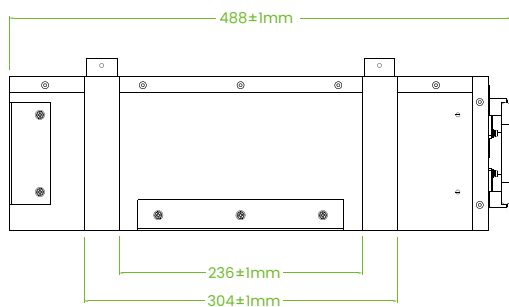
Front view



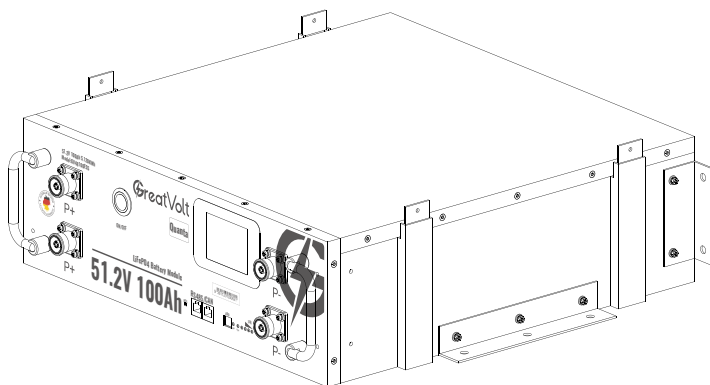
Side view



Top view



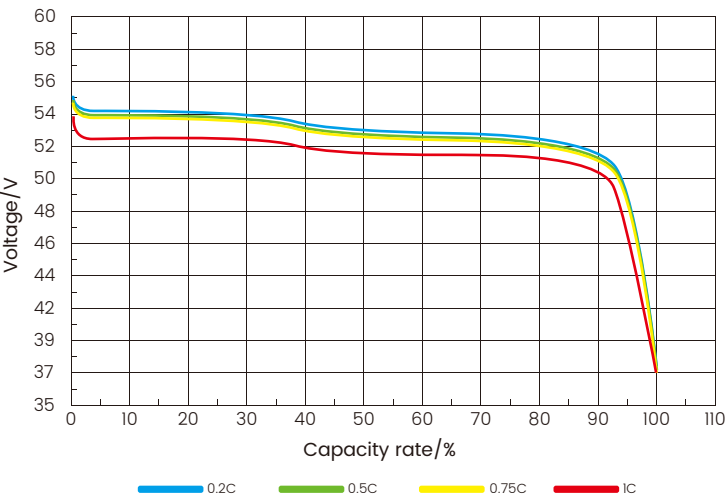
Rear view



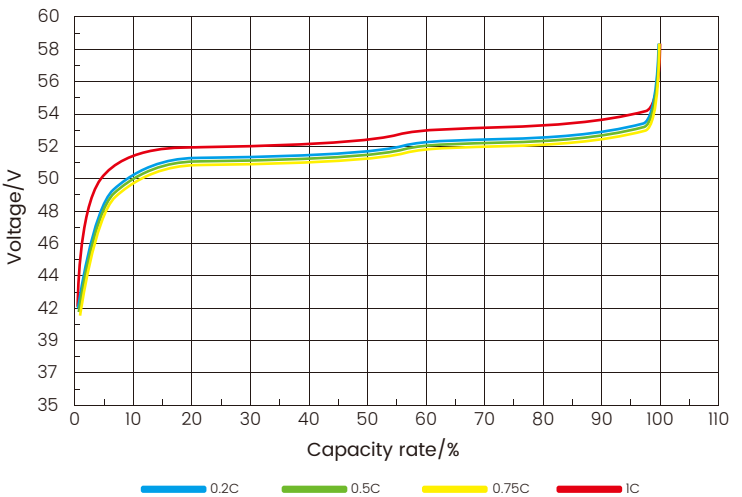
Perspective

# RATE CHARGE-DISCHARGE CURVE

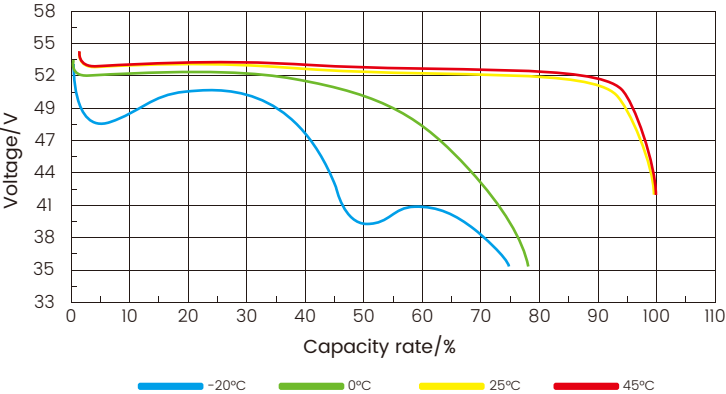
Discharge tests were performed at 25°C/77°F



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



0.2C High and low temperature discharge



0.5C Cycle curve

