XGW Tech

# TT48200LFP

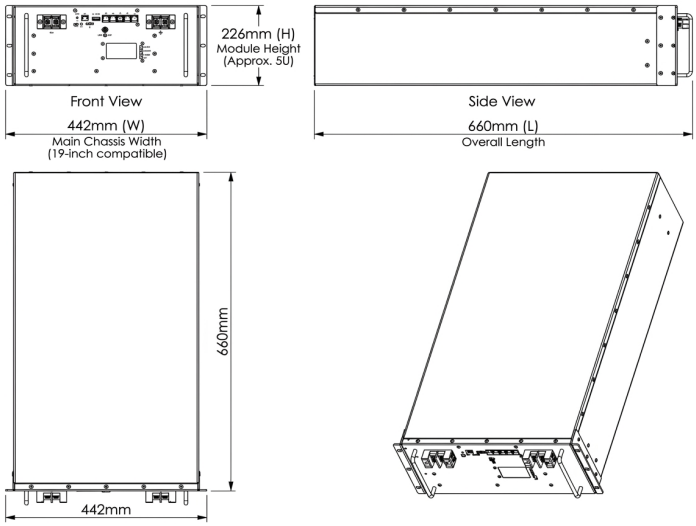
## TT48200LFP Lithium $LiFePO_4$ Battery Pack

XGW TT series lithium ion battery is a powerful $LiFePO_4$ battery product,has the highest capacity in a standard casing available on the market.
The highly sophisticated and integrated BMS with very low self consumption,brings safety, functionality and ease of use together in a 19 inch standard telecom cabinet.
The batteries has been Widely used for banking system, telecom, server, data center, 5G, UPS, etc



### Benefits of Lithium

- High capacity,low weight,Increased energy in given space
- Fast charging
- High operational reliability
- Safest lithium LFP technology
- Excellent long life times
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life
- Maintenance free




### Certifications and standards

#### a.Products

- UL1642(cells)
- FCC
- UN38.3
- IEC62619

#### b.MS certifications

- ISO9001
- ISO14001
- ISO45001

### Specifications

| Nominal Characteristic | | |
|---|---|---|
| Battery model | | TT48200LFP |
| Nominal voltage | | 48V |
| Typical capacity | | 200Ah(25℃,0.2C) |
| Typical energy | | 9600Wh |
| Cells type/chemistry | | Prismatic-$LiFePO_4$ |
| Gravimetic Energy density | | 106Wh/Kg |
| Dimensions | Length<br>Width<br>Depth | 660mm<br>442mm<br>226mm |
| Reference Weight | | 85Kg |
| Case Material | | Steel case with baking finish |
| Cycle life | | >6000 cycles(80% DoD) |
| **Electric Characristics** | | |
| Charge method | | CC/CV |
| Charge voltage Range | | 52~54.5V |
| Max.continuous Discharge Current | | 100A |
| Max.continuous Charge Current | | 100A |
| Charging limit Current | | 20A |
| End of Discharge Voltage | | 37.5V |
| **Operation Environment** | | |
| Charge Temperature | | 0℃~55℃ |
| Discharge Temperature | | -20℃~60℃ |
| Storage Temperature | | -10℃~50℃ |
| Protection Class | | IP**20** |

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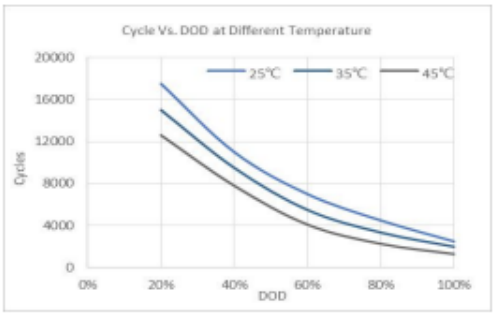
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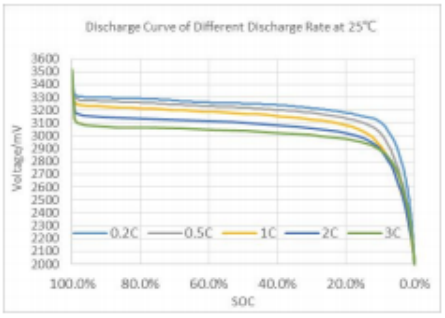
| | |
|---|---|
| Communication Port | CAN, RS485,SNMP（Support Heat）,RS232 |
| Master LED Indicator | 4LED(SOC:25%~SOC100%),2LED (working, alarming) |
| Humidity | 5%~95% |
| Altitude | ≤2000m |

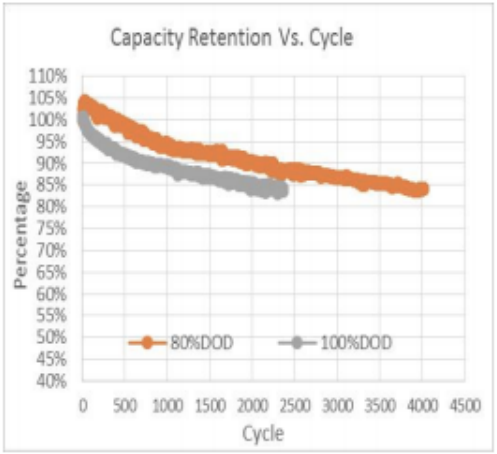
## BMS specifications

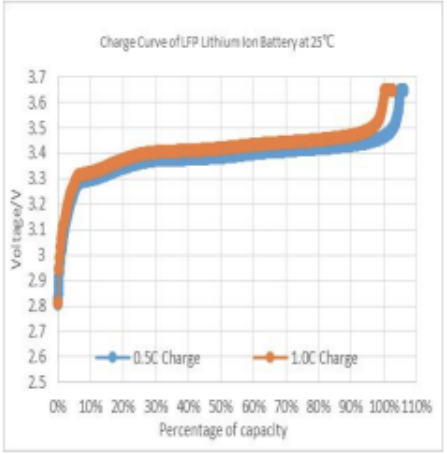
| ITEM | CONTENT | CRITERION |
|---|---|---|
| Voltage | Charging voltage<br>Balance voltage | 3.65V/cell<br>3.45V/cell |
| Current | Max continues charge current<br>Max continues discharge current | 100A<br>100A |
| Over charge Protection | Over charge detection voltage<br>Over charge detection delay time<br>Over charge release voltage | 3.70±0.05V/cell<br>1S<br>3.6±0.05V/cell |
| Over discharge Protection | Over discharge detection voltage<br>Over discharge detection delay time<br>Over discharge release voltage | 2.7±0.05V/cell<br>1~3S<br>2.95±0.10V/cell |
| Over current protection | Over discharge current protection<br>Detection delay time1<br>Over charge current detection current<br>Detection delay time | 125A<br>1000mS<br>125A<br>1000mS |
| Short Circuit Protection | Short Circuit Protection Current<br>Detection delay time<br>Release condition | 350A,External short circuit<br>300uS<br>Cut load or charging |
| Battery temperature | Over-temperature protection<br>Release temperature | 65±5℃<br>50±5℃ |

## Performance curve



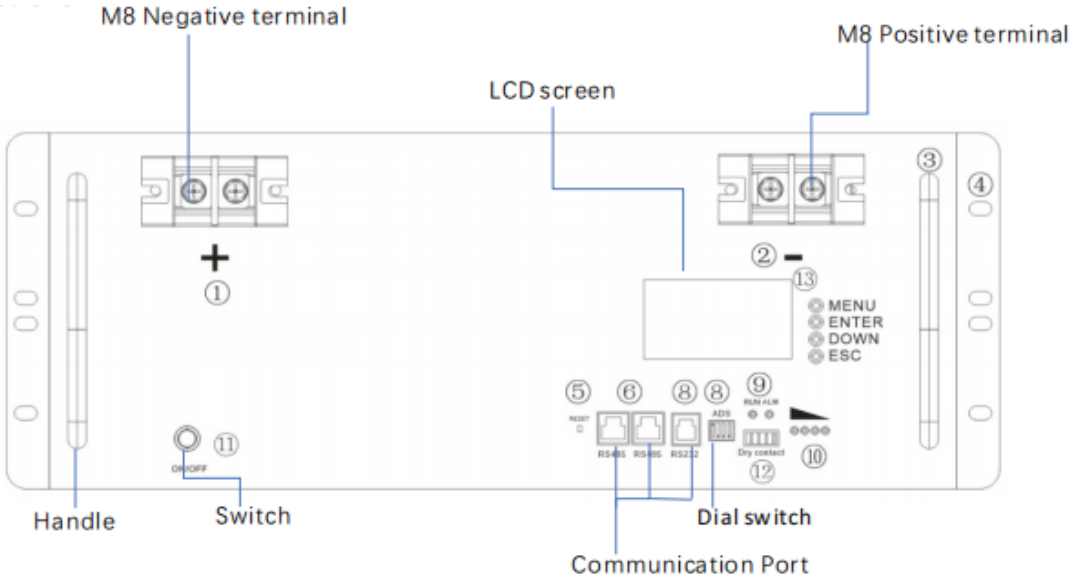







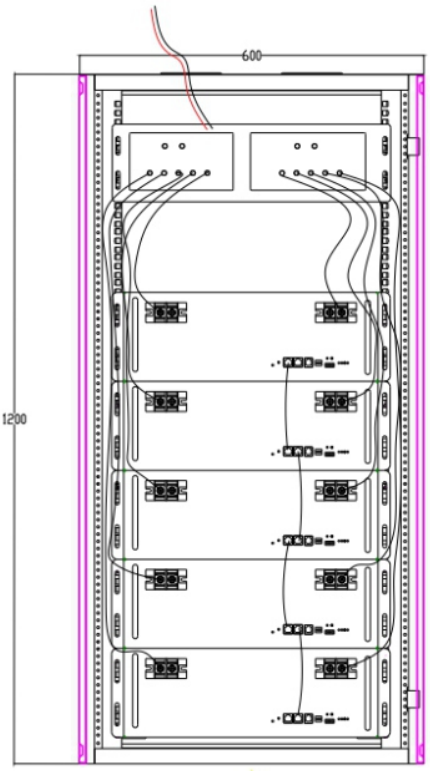
XGW reserves the right to change specifications or design without notice, please keep in touch with us for the latest information

## Panel instructions




## Parallel Communication

While in parallel communication, dial-up addresses of battery module are 1,2,3,4.....14,15; By this method, we can be allowed to read each data depending on battery module. Any battery other than address 0 can be connected to the host computer; FF polling mode used as consulting mode.




## Address Switch function (Only in Parallel)

Note: RS485 communication address can not be 0, the address set by the host computer is required to be the same as the battery communication address, do not have duplicate addresses, otherwise communication may be affected.

| Address code | | | | ADD | PACK Definition | EXPLAINATION |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | | | |
| OFF | OFF | OFF | OFF | 0 | | USE ALONE |
| ON | OFF | OFF | OFF | 1 | PACK | Use as master pack,can apply Telecom RS232 |
| OFF | ON | OFF | OFF | 2 | PACK1 | Use as slave pack1 |
| ON | ON | OFF | OFF | 3 | PACK2 | Use as slave pack2 |
| OFF | OFF | ON | OFF | 4 | PACK3 | Use as slave pack3 |
| ON | OFF | ON | OFF | 5 | PACK4 | Use as slave pack4 |
| OFF | ON | ON | OFF | 6 | PACK5 | Use as slave pack5 |
| ON | ON | ON | OFF | 7 | PACK6 | Use as slave pack6 |
| OFF | OFF | OFF | ON | 8 | PACK7 | Use as slave pack7 |
| ON | OFF | OFF | ON | 9 | PACK8 | Use as slave pack8 |
| OFF | ON | OFF | ON | 10 | PACK9 | Use as slave pack9 |

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