

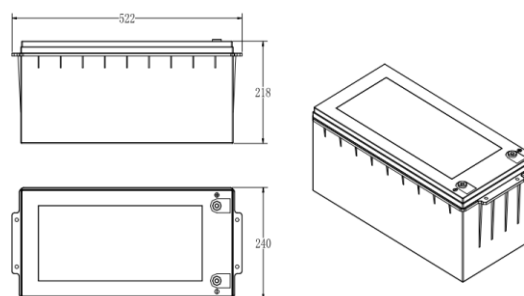
TP24200LFP lithium LiFePO₄ battery pack

TOPAK TP series lithium ion battery is a powerful LiFePO₄ 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 lightweight and robust casing. The batteries has been especially designed to provide energy for RV (Recreational Vehicles), Marine, Energy storage, etc. Bluetooth and LED indicators, LCD screen, self-heated functions could be optional.



Benefits of Lithium

- High capacity, low weight, increased energy in given space
- Fast charging
- High operational reliability
- Safest lithium 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
- OHSAS 18001

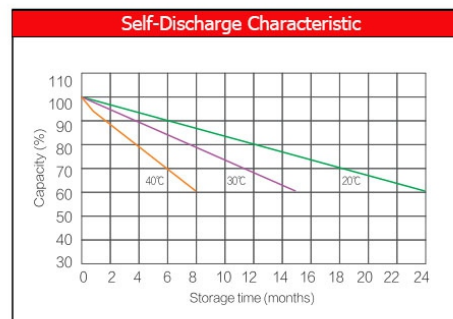
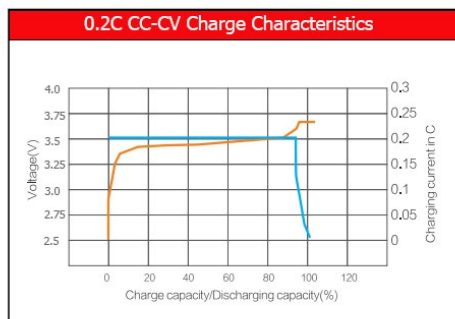
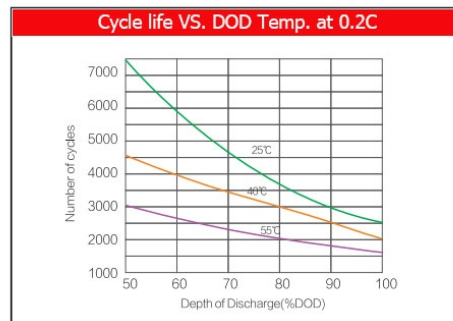
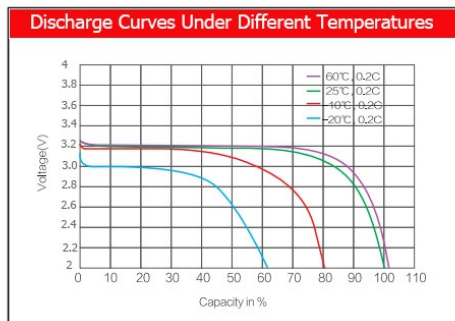
Specifications

| Nominal Characteristic | | |
|----------------------------------|-------------------------------|-------|
| Battery model | TP24200LFP | |
| Nominal voltage | 25.6V | |
| Typical capacity | 200Ah(25°C, 0.2C) | |
| Typical energy | 5120Wh | |
| Cells type/chemistry | Prismatic-LiFePO ₄ | |
| Gravimetric Energy density | 107Wh/Kg | |
| Dimensions | Length | 522mm |
| | Width | 240mm |
| | Height | 218mm |
| Reference Weight | 40Kg | |
| Case Material | ABS | |
| Cycle life | >2000 cycles(100% DoD) | |
| Electric Characteristics | | |
| Charge method | CC/CV | |
| Charge voltage Range | 14.3~14.6V | |
| Max.continuous Discharge Current | 100A | |
| Max.continuous Charge Current | 100A | |
| Discharge Pulse Current (10 sec) | 200A | |
| End of Discharge Voltage | 10V | |
| Operation Environment | | |
| Charge Temperature | 0°C~55°C | |
| Discharge Temperature | -20°C~60°C | |
| Storage Temperature | -20°C~60°C | |
| Protection Class | IP65 | |

BMS specifications

| ITEM | CONTENT | CRITERION |
|---------------------------|---------------------------------------|-------------------------------|
| Voltage | Charging voltage | 3.65V/cell |
| | Balance voltage | 3.45V/cell |
| Current | Max continues charge current | 100A |
| | Max continues discharge current | 100A |
| Over charge Protection | Over charge detection voltage | 3.75±0.05V |
| | Over charge detection delay time | 1~3S |
| | Over charge release voltage | 3.6±0.05V |
| Over discharge Protection | Over discharge detection voltage | 2.5±0.05V |
| | Over discharge detection delay time | 1~3S |
| | Over discharge release voltage | 2.70±0.10V |
| Over current protection | Over discharge current protection | 400A |
| | Detection delay time1 | 500~1500mS |
| | Over charge current detection current | 160A |
| | Detection delay time | 300~800mS |
| Short Circuit Protection | Short Circuit Protection Current | 1680A, External short circuit |
| | Detection delay time | 400uS |
| | Release condition | Cut load and charging |
| Battery temperature | Over-temperature protection | 65±5℃ |
| | Release temperature | 50±5℃ |

Performance curve



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