

EG18006A

LiFePO₄ Lithium Battery

Longer Cycle Life: Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.

Lighter Weight: About 40% weight of a comparable lead acid battery, save up to 60% in weight.

Quick Charge: Short charge time compared with lead acid battery.

Low Self-Discharge: Lower self-discharge compared with lead acid battery, longer storage time without recharging.

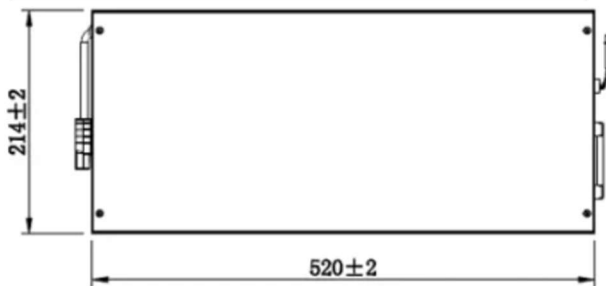
Superior Safety: Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

High Efficient: Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



Specifications

| | | |
|------------------|--------------|--------|
| Nominal voltage | | 192V |
| Nominal capacity | | 6Ah |
| Dimensions | Length | 520mm |
| | Width | 214mm |
| | Height | 120mm |
| | Total height | 120mm |
| Approx. weight | | 17.5kg |



Characteristics

| | | |
|---|----------------------------------|-----------------------------|
| Electrical Parameters (25°C) | Rated Voltage | 192V |
| | Rated Capacity (C ₅) | 6Ah |
| | Energy | 1152Wh |
| | Months Self Discharge | <1% |
| | Charge Efficiency | 99.5%@ 1C |
| | Discharge Efficiency | 96-99%@ 7.5C |
| Terminal type | | Anderson SB50 |
| Internal resistance (Fully charged, 25°C) | | 530mΩ |
| Cycle life | | >3000 cycles @ 1C 100%D.O.D |
| Capacity affected by temperature | 40°C | 100% |
| | 25°C | 100% |
| | 0°C | 90% |
| | -10°C | 75% |
| Nominal operating temperature | | 25°C± 3°C (77°F± 5°F) |
| Operating temperature range | Discharge | - 20°C~ 60°C (-4°F ~ 140°F) |
| | Charge | 0°C~ 45°C (32°F ~ 113°F) |
| | Storage | 0°C~ 40°C (32°F ~ 104°F) |
| Water Dust Resistance | | IP21 |
| Charge Voltage | | 216V |
| Equalization Turn-on Voltage | | 204V |
| Charge Current | | 6A |
| Backup time | | 8-15 min |
| Charge Cut off Voltage | | 216V |
| Max Continuous Discharge Current | | 45A |
| BMS Over Temperature Protection | | 65±5°C |
| Over discharge Protection Voltage | | 62.4V |
| Over discharge Recovery Voltage | | 64.8V |
| Short Circuit Protection | | YES |
| Matched UPS | | ≤8KVA |
| Cell in Series and Parallel | | 60S2P |
| Mechanical | Cells | 1FR26650-3000mAh |
| | Container | SPCC |

Plot of multiplier temperature rise

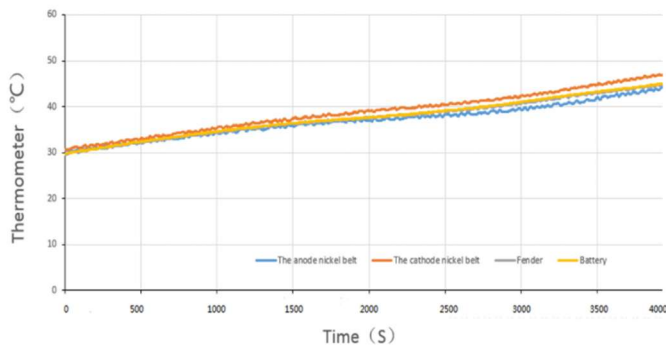
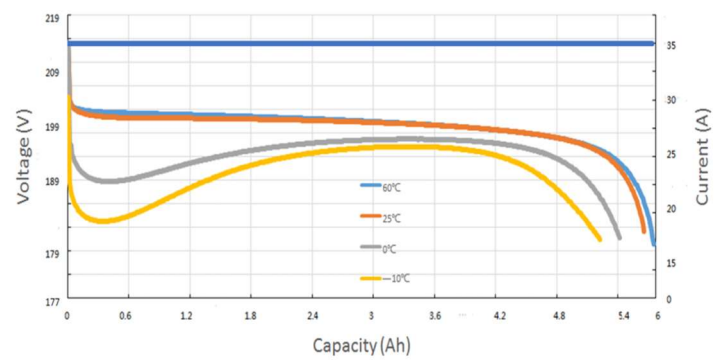
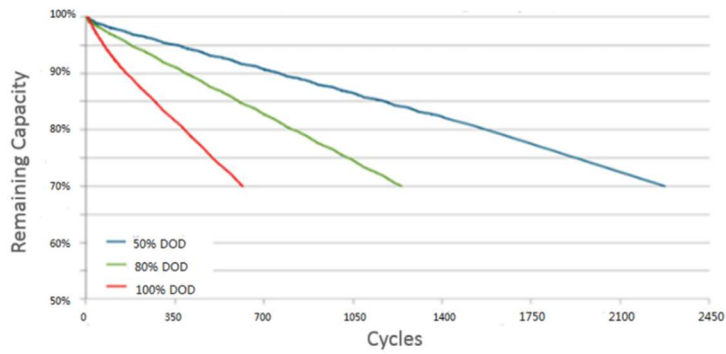


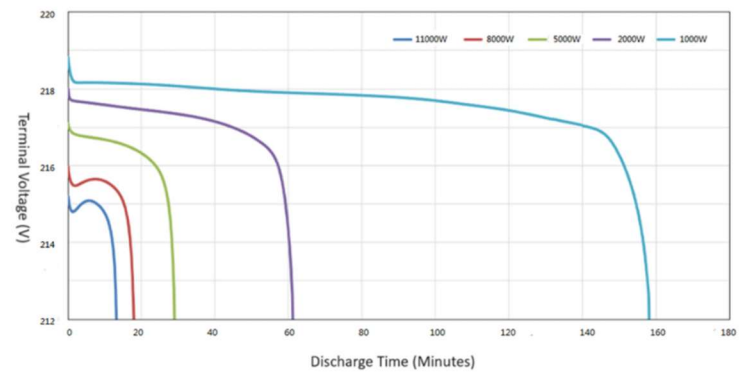
Diagram of maximum current discharge at different temperatures



Cycle graphs of different DOD lifetime



Different constant power discharge curve



www.cmxbattery.com;

email: tony@egbatt.com;

whatsapp: 0086+18676987799