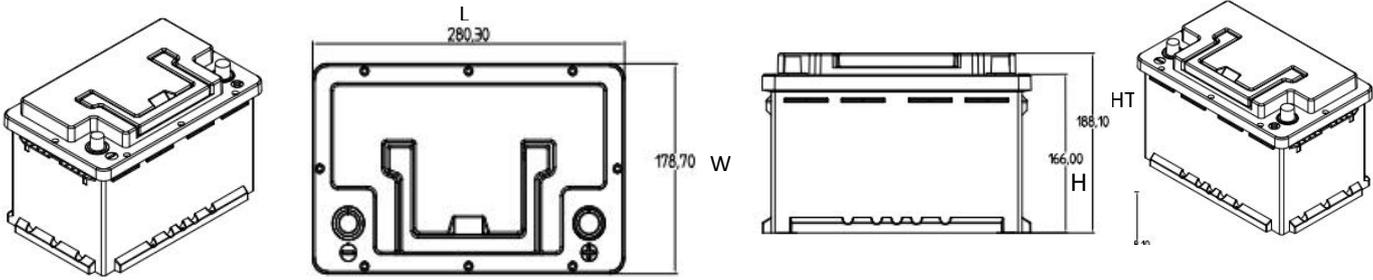




Guangdong JIEYO New Energy Technology Co., Ltd.

JYF1221 12.0V42Ah 504Wh Sodium Ion Battery

| ELECTRICAL PERFORMANCE | |  | |
|---|--------------|--|---------------------|
| Nominal Voltage | 12.0V | | |
| Nominal Capacity | 42Ah | | |
| Capacity@7.5A | 110min | | |
| Energy | 504Wh | | |
| Resistance | ≤40mΩ@50%SOC | | |
| Self Discharge | <3%/Month | | |
| CHARGE PERFORMANCE | | PROTECTING CHARACTERISTICS | |
| Recommended Charge Current | 20A | Protection Function | Comments |
| Maximum Charge Current | ≤20A | Overcurrent protection during charging | Stop Charging |
| Recommended Charge Voltage | 15.0V | Overcurrent protection for discharging | Stop Charging |
| BMS Charge Cut-Off Voltage | <15.2V | Short-circuit protection | Stop output |
| Reconnect Voltage | >14.4V | Low-voltage protection | Stop output |
| Balancing Voltage | <14.1V | Overcharge protection | Stop output |
| DISCHARGE PERFORMANCE | | External shape characteristics | |
| Maximum Continuous Discharge Current | 20A | Shell material | Plastic cover shell |
| Peak Discharge Current | ≤40A | Product weight | 7.6-8kg |
| BMS Discharge Cut-Off Current | 40A±1A | Protection grade | IP65 |
| Cold start current (CCA) | 1200(5S) | Specification: LxWxHxHT mm | 280x178x166x188 |
| Recommended Low Voltage Disconnect | 7.2V | Charging characteristics | |
| BMS Discharge Cut-Off Voltage | >7.2V(2s) | Input voltage range | 14-15.5VDC±1VDC |
| Reconnect Voltage | >8.0V | Charging current | 15-12A |
| Short Circuit Protection | 1000~1500μs | Estimated charging time | 3-4h |
| Unique features: | | Certification | |
| 1. High safety performance: No fire or explosion during puncture, resistant to overcharging and overdischarging. 2. Strong starting capability: The cold start current is 1.5 times that of lead-acid batteries, allowing for quick and instant startup. The voltage is the same as that of lead-acid batteries, without affecting the circuit. 3. High service life: 3000 cycles, more than 50,000 start-ups, and can be used for 8 to 10 years. 4. Not prone to freezing: Even at -40° C, it can discharge 80% and still start the car easily. 5. Not prone to starvation: Discharging to 0V will not damage it. After charging, it can recover its capacity and fully recover. (Lead-acid batteries and lithium batteries will be permanently damaged and irreparable due to excessive depletion.) | | Shipping Classification | UN38.3 MSDS |
| Outline Dimension | | | |
|  | | | |
| L(mm) | W(mm) | H(mm) | HT(mm) |
| 280 | 178 | 166 | 188 |