



AYAA TECHNOLOGY CO.,LTD

PCM Specifications

Model: AY-L16S200A-ES002 (7S-16S)

| Test item (Test at normal temperature 25±2℃) | | Criterion | | |
|--|---|---|--|------------|
| Battery type classification | | LF | LI | Adjustable |
| Communication Interface | | RS485/CAN/UART | | YES |
| Voltage | Charging voltage | DC: 22.4V~51.2V CC/CV (3.2V/Cell) 7s~16s | DC: 29.4V~67.2V CC/CV (4.2V/Cell) 7s~16s | YES |
| Supply Current | Maximal continuous charging current | 200A | | YES |
| | Maximal continuous discharging current | 200A | | YES |
| | Current consume in normal operation | ≤15mA | | / |
| | Current consume in sleep operation | ≤150uA | | / |
| Balanced | Active balance current for single cell | 2A | | / |
| | Balance voltage for single cell | 3.5±0.05V | 4.0±0.05V | YES |
| | Turn on the pressure difference | 50mV | | YES |
| Over-Charge Protection (single cell) | Over charge detection voltage | 3.65±0.05V | 4.25±0.05V | YES |
| | Over charge detection delay time | 1.0S | | YES |
| | Over charge release voltage | 3.55±0.05V | 4.15±0.05V | YES |
| Over-Discharge Protection (single cell) | Over discharge detection voltage | 2.5±0.05V | 2.7±0.05V | YES |
| | Over discharge detection delay time | 1.0S | | YES |
| | Over discharge release voltage | 2.8±0.05V | 3.0±0.05V | YES |
| Charge Over Current Protection | Charge Over current detection current | 220±3A | | YES |
| | Detection delay time | 1.0S | | YES |
| | Release conditions | Removing the charger release | | / |
| Discharge Over Current Protection | Discharge Over current detection current 1 | 400±3A | | YES |
| | Detection delay time | 10.0S | | YES |
| | Discharge Over current detection current 2 | 500±3A | | YES |
| | Detection delay time | 1.0S | | YES |
| | Release conditions | Removing the load is lifted | | / |
| Short Protection | Detection condition | Battery B + Short Circuit for P-Connection Head | | / |
| | Detection delay time | 200-600uS | | YES |
| | Release condition | Remove load | | / |
| SOC | accuracy(It takes a charge-discharge cycle to achieve the accuracy requirement after initial power-on.) | 5%~8% | | / |
| Temperature | Low temperature protection when charge | 0℃ | | YES |
| | Release temperature(low temperature protection) | 5℃ | | YES |
| | Over temperature protection when charge | 60℃ | | YES |
| | Release temperature(over temperature protection) | 55℃ | | YES |
| | Low temperature protection when discharge | -15℃ | | YES |
| | Release temperature(low temperature protection) | -10℃ | | YES |
| | Over temperature protection when discharge | 65℃ | | YES |
| | Release temperature(over temperature protection) | 55℃ | | YES |
| | Operating Temperature Range | -40~+85℃ | | / |
| Storage Temperature Range | -40~+125℃ | | / | |

SIZE: L206 * W162 * T40 mm

NTC:10K NTC Heater: YES Braking Resistors: YES Equalization Method: Active

Temperature switch: / °C (the batteries temperature) Weak current switch: YES Activation Method: /

Optional configuration: LCD display screen: YES LED light board: / Bluetooth mode: YES 4G: YES GPS: /



Prepared: Zhang 2024-11-27

Checked:

Approved:

Form number: AY-ENBG-007A0