



AYAA TECHNOLOGY CO.,LTD  
PCM Specifications

Model: PCM-L10S30-A32 (LI-10S30A)

| Test item (Test at normal temperature 25±2℃)                                                         |                                                                                 | Criterion                        |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------|
| Communication Interface                                                                              |                                                                                 | I2C                              |
| Voltage                                                                                              | Charging voltage                                                                | DC: 42V CC/CV<br>(4.2v/Cell) 10S |
| Capacity                                                                                             | Designing battery capacity (PCM)                                                | 320Ah                            |
| Supply Current                                                                                       | Normal operating mode current: Fuel gauge in NORMAL mode. ILOAD > Sleep Current | ≤400uA                           |
|                                                                                                      | Maximal continuous charging current                                             | 30A                              |
|                                                                                                      | Maximal continuous discharging current                                          | 30A                              |
|                                                                                                      | Balance current for single cell                                                 | 42±10mA                          |
| Over-charge Protection (single cell)                                                                 | Balance voltage for single cell                                                 | 4.2V±0.05V                       |
|                                                                                                      | Over charge detection voltage                                                   | Optional                         |
|                                                                                                      | Over charge detection delay time                                                | 0.5S—2S                          |
|                                                                                                      | Over charge release voltage                                                     | Optional                         |
| Over discharge protection (single cell)                                                              | Over discharge detection voltage                                                | Optional                         |
|                                                                                                      | Over discharge detection delay time                                             | 0.5—2S                           |
|                                                                                                      | Over discharge release voltage                                                  | Optional                         |
| Over current protection                                                                              | Discharge Over current detection current                                        | Adjustable                       |
|                                                                                                      | Detection delay time                                                            | 100ms—800ms                      |
|                                                                                                      | Release condition                                                               | Cut load,Auto Recovery           |
| Short protection                                                                                     | Detection condition                                                             | Exterior short circuit           |
|                                                                                                      | Detection delay time                                                            | 200-600us                        |
|                                                                                                      | Release condition                                                               | Cut load                         |
| Resistance                                                                                           | Main loop electrify resistance                                                  | ≤50mΩ                            |
| Temperature                                                                                          | Operating Temperature Range                                                     | -40~+85℃                         |
|                                                                                                      | Storage Temperature Range                                                       | -40~+125℃                        |
| SIZE: L90*W70*T16 mm                                                                                 |                                                                                 |                                  |
| NTC: 10KNTC B=3435      Temperature switch: 70℃      Weak current switch: /      Activation Method:/ |                                                                                 |                                  |

