



# AYAA TECHNOLOGY CO.,LTD

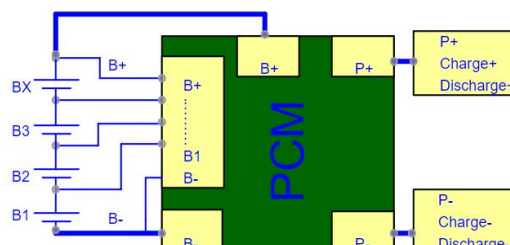
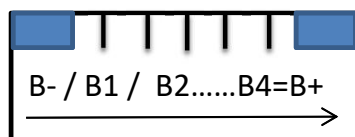
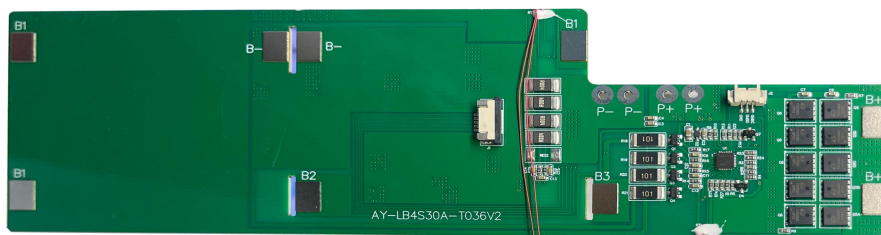
## BMS Specifications

Model: AY-LB4S30A-T036V2 (LI-4S8A) BQ40Z50R1 ver:

| Test item (Test at normal temperature 25±2℃) |                                            | Criterion                         |
|----------------------------------------------|--------------------------------------------|-----------------------------------|
| Communication Interface                      |                                            | SMBUS                             |
| Voltage                                      | Charging voltage                           | DC: 16.8V CC/CV<br>(4.2v/Cell) 4s |
| Supply Current                               | Normal current consumption                 | ≤10uA                             |
|                                              | Maximal continuous charging current        | 8A                                |
|                                              | Maximal continuous discharging current     | 8A                                |
| Over-Charge Protection (single cell)         | Over charge detection voltage              | 4.25±0.05V(Adjustable)            |
|                                              | Over charge detection delay time           | 2.0S(Adjustable)                  |
|                                              | Over charge release voltage                | 4.15±0.05V(Adjustable)            |
| Over-Discharge Protection (single cell)      | Over discharge detection voltage           | 2.5±0.1V(Adjustable)              |
|                                              | Over discharge detection delay time        | 2.0S(Adjustable)                  |
|                                              | Over discharge release voltage             | 3.0±0.1V(Adjustable)              |
| Current Protection (Battery pack)            | Charge over current detection current 1    | 4±1A(Adjustable)                  |
|                                              | Detection delay time 1                     | 6.0S(Adjustable)                  |
|                                              | Charge over current detection current 2    | 5±1A(Adjustable)                  |
|                                              | Detection delay time 2                     | 3.0S(Adjustable)                  |
|                                              | Discharge over current detection current 1 | 25±2A(Adjustable)                 |
|                                              | Detection delay time 1                     | 3.0S(Adjustable)                  |
|                                              | Discharge over current detection current 2 | 32±2A(Adjustable)                 |
|                                              | Detection delay time 2                     | 1.0S(Adjustable)                  |
|                                              | Release condition                          | Cut load,Auto Recovery            |
| Short Protection                             | Detection condition                        | Exterior short circuit            |
|                                              | Detection delay time                       | < 100uS                           |
|                                              | Release condition                          | Cut load                          |
| Resistance                                   | Main loop electrify resistance             | ≤ 50mΩ                            |
| Temperature                                  | Low temp. protection when charge           | 0℃(Adjustable)                    |
|                                              | Release temp. ( low temp. protection)      | 5℃(Adjustable)                    |
|                                              | Over temp. protection when charge          | 55℃(Adjustable)                   |
|                                              | Release temp. ( over temp. protection)     | 50℃(Adjustable)                   |
|                                              | Low temp. protection when discharge        | 0℃(Adjustable)                    |
|                                              | Release temp. ( low temp. protection)      | 5℃(Adjustable)                    |
|                                              | Over temp. protection when discharge       | 60℃(Adjustable)                   |
|                                              | Release temp. (over temp. protection)      | 55℃(Adjustable)                   |
|                                              | Operating Temperature Range                | -40~+85℃                          |
|                                              | Storage Temperature Range                  | -40~+125℃                         |

SIZE: L214 \* W64 \* T2 mm

NTC: 10KΩ Temperature switch: / °C (the batteries temperature) Weak current switch: / Activation Method: /



Prepared: Zjh 2025-05-21

Checked: Form number: AY-ENBG-007A0

Approved: