



# AYAA TECHNOLOGY CO.,LTD

## PCM Specifications

Model: PCM-L14S40-K77

| No. | Test item<br>(Test at normal temperature 25±2℃ and relative humidity≤90%) |                                                 | Criterion                                      |
|-----|---------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| 1   | Communication Interface                                                   |                                                 | <b>SMBUS</b>                                   |
| 2   | Voltage                                                                   | Charging voltage                                | DC: 48.3V~58.8V CC/CV<br>(3.45V~4.2V/Cell) 14s |
|     |                                                                           | Cell-balance detection voltage (Charge balance) | can be adjusted by required                    |
|     |                                                                           | Cell-balance detection delay time               | 0.5S—2S                                        |
| 3   | Current                                                                   | Normal operating-mode current (Gas Gauge IC)    | 600 uA (average)                               |
|     |                                                                           | SLEEP operating-mode current (Gas Gauge IC)     | 350 uA (average)                               |
|     |                                                                           | Maximal continuous charging current             | 20-50A                                         |
|     |                                                                           | Maximal continuous discharging current          | 20-50A                                         |
| 4   | Over charge Protection<br>(single cell)                                   | Over charge detection voltage                   | 3.6-4.35V                                      |
|     |                                                                           | Over charge detection delay time                | 0.5S—2S                                        |
|     |                                                                           | Over charge release voltage                     | 3.4-4.15V                                      |
| 5   | Over discharge protection<br>(single cell)                                | Over discharge detection voltage                | 2.0-3.0V                                       |
|     |                                                                           | Over discharge detection delay time             | 150—300mS                                      |
|     |                                                                           | Over discharge release voltage                  | 2.3-3.2V                                       |
| 6   | Over current protection<br>(Battery pack)                                 | Over current detection current                  | 60-150A                                        |
|     |                                                                           | Detection delay time                            | 50ms—300ms                                     |
|     |                                                                           | Release condition                               | Cut load,Auto Recovery                         |
| 7   | Short protection                                                          | Detection condition                             | Exterior short circuit                         |
|     |                                                                           | Detection delay time                            | 200-800us                                      |
|     |                                                                           | Release condition                               | Cut load,Auto Recovery                         |
| 8   | Resistance                                                                | Protection circuitry (MOSFET)                   | ≤50mΩ                                          |
| 9   | Temperature                                                               | Operating Temperature Range                     | -40~+85℃                                       |
|     |                                                                           | Storage Temperature Range                       | -40~+125℃                                      |

SIZE: L160\*W65\*T12mm

NTC:10K NTC\*3PCS

Temperature switch: 65℃

Weak current switch: /

Activation Method: /

