

## Product Specification

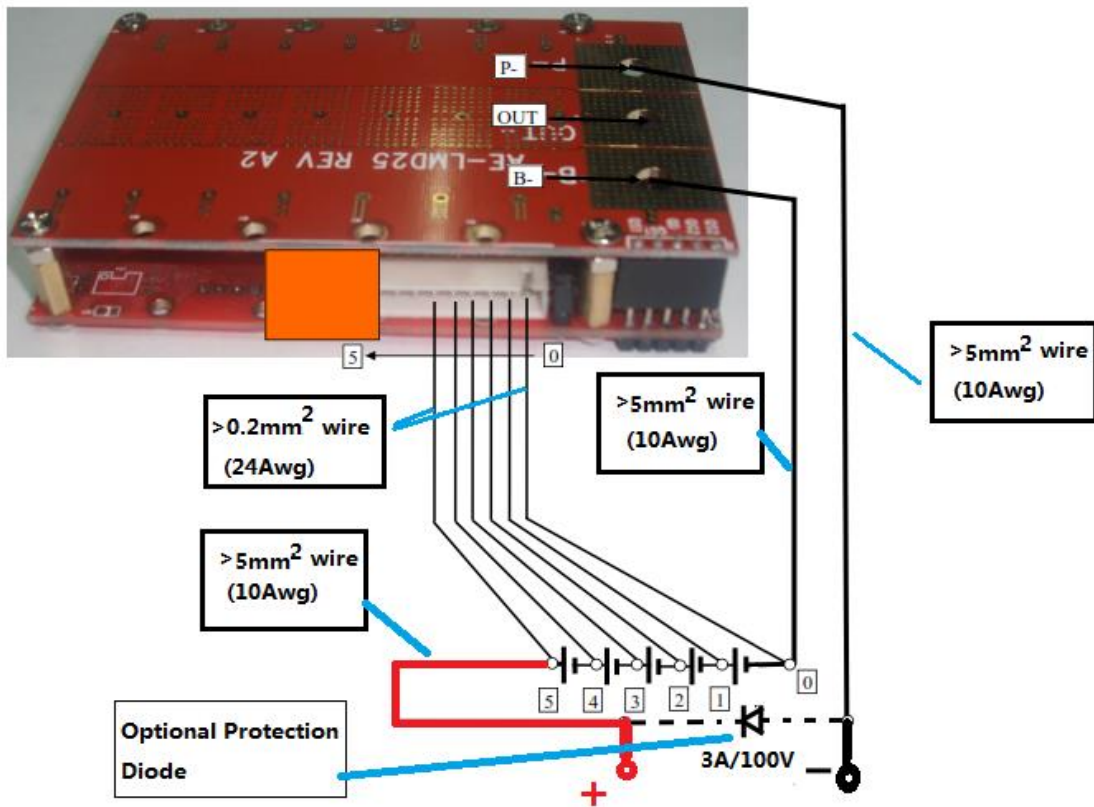
Overcharge protection voltage (single cell)	3.0V $\pm$ 100mV
Overcharge release voltage (single cell)	2.85V $\pm$ 100mV
Overcharge protection voltage (Pack)	15.00V $\pm$ 0.5V
Overcharge release voltage (Pack)	14.0V $\pm$ 0.5V
Over discharge protection voltage (single cell)	1.70V $\pm$ 150mV
Over discharge release voltage (single cell)	1.8V $\pm$ 150mV
Over discharge protection voltage (Pack)	8.5V $\pm$ 0.75V
Rate discharging current	30A
Maximum discharging current	50A (<10Second)
Over current protection current	100A $\pm$ 30A
Over charge protection delay time	<3s
Over discharge protection delay time	<1s
Over current protection delay time	<20us
Current consumption current	80~150uA
Maximum resistance	<3.5m $\Omega$
Over discharge / current protection reset	Cut off all loads
Size (mm)	(L)98X(W)60X(H)18mm
Weight (gram)	60
Working temperature	-20~65°C
Maximum temperature rise in working state	40°C (Please control your environment temperature)
Application	5 pcs LTO, (Lithium Titanate) battery in series

### Typical application

1. **Wire preparation:**
  - A 10Awg or any cross-sectional area more than 5mm<sup>2</sup> for PCM's input and output.
  - B 24Awg or any cross-sectional area more than 0.2mm<sup>2</sup> or single cell voltage monitor.
2. **Battery pack: 5pcs Lto battery cells connect in serial:**
  - 0----Cell 1's negative electrode. (Pack negative electrode)
  - 1----Cell1's positive electrode and cell2's negative electrode.
  - 2----Cell2's positive electrode and cell3's negative electrode
  - 4----Cell3's positive electrode and cell4's negative electrode
  - 4----Cell4's positive electrode and cell5's negative electrode
  - 5----Cell5's positive electrode and Pack positive electrode
3. **Connection procedure:**
  - A. Connect 0~5 of battery pack to PCM (0~5) in sequence with the wire describe as 1-B
  - B. Connect B- to the negative electrode of the battery pack with the wire
  - C. The P- is the battery pack negative electrode and the battery pack's positive electrode (5) is the pack's Positive electrode. A suitable length wire describe as 1-A can be connected as PCM's output extension terminal.

**4. Note:**

- A. It is very important to connect it form 0 to 5. Wrong sequence will damage the PCM.**
- B. The connector should withstand 50A at least.**
- C. To weld the wire and connector and An anti-static electronic soldering iron is very necessary. Otherwise it will damage the PCM.**
- D. It is better to connect a diode ( $I_0 > 3A, V_{RM} > 100V$ ) for safety protection.**



AA