

# Protection Circuit Module Specifications For 3.7V (1S) Li-ion Battery Pack

Model: PCM-L01S8-015 (1S)

| No. | Test Item                 |  | Criterion               |
|-----|---------------------------|--|-------------------------|
| 1   | Voltage                   | Charging voltage                       | DC4.2V CC/CV            |
|     |                           | Balance voltage for single cell        |                         |
| 2   | Current                   | Balance current for single cell        |                         |
|     |                           | Current consumption for single cell    | ≤10μA                   |
|     |                           | Maximal continuous charging current    | 5A                      |
|     |                           | Maximal continuous Discharging current | 5A                      |
|     |                           |  |                         |
| 3   | Over charge Protection    | Over charge detection voltage          | 4.30±0.05V              |
|     |                           | Over charge detection delay time       | 0.5S—2S                 |
|     |                           | Over charge release voltage            | 4.1±0.05V               |
| 4   | Over discharge protection | Over discharge detection voltage       | 2.4±0.1V                |
|     |                           | Over discharge detection delay time    | 10mS—200mS              |
|     |                           | Over discharge release voltage         | 3.0±0.1V                |
| 5   | Over current protection   | Over current detection current         | 8.5±1A                  |
|     |                           | Detection delay time                   | 5ms—20ms                |
|     |                           | Release condition                      | Cut load, Auto Recovery |
| 6   | Short protection          | Detection condition                    | Exterior short circuit  |
|     |                           | Detection delay time                   | 200-500us               |
|     |                           | Release condition                      | Cut load, Auto Recovery |
| 7   | Resistance                | Protection circuitry                   | ≤50mΩ                   |
| 8   | Temperature               | Operating Temperature Range            | -40~+85℃                |
|     |                           | Storage Temperature Range              | -40~+125℃               |

