

# Protection Circuit Module Specifications For 37V Li-ion/Li-PO Battery Pack

Model: PCM-LI37V30A

| No. | Test item                 |  | Criterion                  |
|-----|---------------------------|--|----------------------------|
| 1   | Voltage                   | Charging voltage                       | DC: 42V CC/CV (4.2V/1Cell) |
|     |                           | Balance voltage for single cell        | 4.20V±0.025V               |
| 2   | Current                   | Balance current for single cell        | 105mA±10mA                 |
|     |                           | Current consumption for single cell    | ≤20 μA                     |
|     |                           | Maximal continuous Charging current    | 20A                        |
|     |                           | Maximal continuous Discharging current | 30A                        |
| 3   | Over charge Protection    | Over charge detection voltage          | 4.325±0.025V               |
|     |                           | Over charge detection delay time       | 0.5S—2S                    |
|     |                           | Over charge release voltage            | 4.075±0.025V               |
| 4   | Over discharge protection | Over discharge detection voltage       | 2.50±0.05V                 |
|     |                           | Over discharge detection delay time    | 100—250ms                  |
|     |                           | Over discharge release voltage         | 2.9±0.05V                  |
| 5   | Over current protection   | Over current detection voltage         | 0.65±0.1V                  |
|     |                           | Over current detection current         | 140±10A                    |
|     |                           | Detection delay time                   | 5ms—20ms                   |
|     |                           | Release condition                      | Cut load                   |
| 6   | Short protection          | Detection condition                    | Exterior short circuit     |
|     |                           | Detection delay time                   | 200-500us                  |
|     |                           | Release condition                      | Cut load                   |
| 7   | Resistance                | Protection circuitry (B- TO P-)        | ≤20m Ω                     |
| 8   | Temperature               | Operating Temperature Range            | -40~+85℃                   |
|     |                           | Storage Temperature Range              | -40~+125℃                  |

L145\*W58\*T18mm

