

# Protection Circuit Module Specifications For 14.8V Li-ion/Li-po Battery Pack

Model:PCM-L04S07-379 (LI-4S)

| No. | Test item                               | Criterion                                   |                              |
|-----|---|---|------------------------------|
| 1   | Voltage                                 | Charging voltage                            | DC: 16.8V CC/CV (4.2V/1cell) |
|     |   | Balance voltage for single cell             |                              |
| 2   | Current                                 | Balance current for single cell             |                              |
|     |   | Current consumption for single cell         | ≤50μA                        |
|     |   | Maximal continuous charging current         | 4A                           |
|     |   | Maximal continuous discharging current      | 4A                           |
|     |   |   |                              |
| 3   | Over charge Protection (single cell)    | Over charge detection voltage               | 4.35V±0.025V                 |
|     |   | Over charge detection delay time            | 0.3S—2S                      |
|     |   | Over charge release voltage                 | 4.15V±0.05V                  |
| 4   | Over discharge protection (single cell) | Over discharge detection voltage            | 2.40V±0.08V                  |
|     |   | Over discharge detection delay time (C8=1U) | 300-2000ms                   |
|     |   | Over discharge release voltage              | 3.0±0.10V                    |
| 5   | Over current protection                 | Over current detection voltage              | 150±25mv                     |
|     |   | Over current detection current              | 6±1A                         |
|     |   | Detection delay time (C8=1U)                | 30ms—200ms                   |
|     |   | 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+)             | ≤50mΩ                        |
| 8   | Temperature                             | Operating Temperature Range                 | -40 ~ +85°C                  |
|     |   | Storage Temperature Range                   | -40 ~ +125°C                 |

