

# Data Sheet 规格书

Product name 品名：Protection Circuit Module 保护板

Model No 型号：PCM-L03S14-324

For 3S1P 18650/18500/14500 Lithium-ion/Lithium Polymer/LiFePO4 Battery Packs

适用于3S1P 18650/18500/14500 锂离子/锂聚合物/磷酸铁锂电池组

| Items 项目                               |                                                          | Specifications 规格                       |                             |
|----------------------------------------|----------------------------------------------------------|-----------------------------------------|-----------------------------|
|                                        |                                                          | Lithium-ion/Lithium Polymer<br>锂离子/锂聚合物 | LiFePO4<br>磷酸铁锂             |
| Charge<br>充电                           | Charging voltage ( CC/CV ) 充电电压-3S                       | CC/CV : 12.6V ( 4.2V/Cell )             | CC/CV : 10.8V ( 3.6V/Cell ) |
|                                        | Maximal continuous charging current<br>最大连续充电电流          | 12A                                     |                             |
| Discharge 放电                           | Maximal continuous discharging current<br>最大持续放电电流       | 12A                                     |                             |
| Low current<br>consumption<br>低消耗电流    | Current consumption on operation 工作时消耗电流                 | <20μA                                   |                             |
|                                        | Current consumption at power down 休眠时消耗电流                | <0.1μA                                  |                             |
| Cell-balance<br>电量平衡                   | Cell-balance detection voltage 电量平衡检测电压                  | /                                       | /                           |
|                                        | Cell-balance release voltage 电量平衡解除电压                    | /                                       | /                           |
|                                        | Cell-balance current 电量平衡电流                              | /                                       | /                           |
| Over-charge<br>过充电                     | Overcharge detection voltage 过充电检测电压                     | 4.250 ± 0.025 V                         | 3.900 ± 0.025 V             |
|                                        | Overcharge release voltage 过充电解除电压                       | 4.150 ± 0.050 V                         | 3.800 ± 0.050 V             |
|                                        | Overcharge delay time 过充电检测延迟时间                          | 0.96-1.4S                               |                             |
| Over-discharge<br>过放电                  | Overdischarge detection voltage 过放电检测电压                  | 2.50 ± 0.080 V                          | 2.00 ± 0.080 V              |
|                                        | Overdischarge release voltage 过放电解除电压                    | 3.00 ± 0.100 V                          | 2.50 ± 0.100 V              |
|                                        | Overdischarge delay time 过放电检测延迟时间                       | 115~173mS                               |                             |
| Discharge overcurrent<br>放电过流          | Discharge overcurrent detection voltage<br>放电过流检测电压      | 0.10 ± 0.025 V                          | 0.15 ± 0.025 V              |
|                                        | Discharge overcurrent delay time<br>放电过流检测延迟时间           | 7.2-11ms                                |                             |
|                                        | Discharge overcurrent protection 放电过电流保护                 | 30±5A(adjustable)                       |                             |
|                                        | Release condition 释放状态                                   | Cut-off-load 切断负载                       |                             |
| Short-circuiting<br>protection<br>短路保护 | Load short-circuiting detection voltage<br>负载短路检测电压      |                                         |                             |
|                                        | Detection condition 检测条件                                 | Exterior short circuit 外部短路             |                             |
|                                        | Load short-circuiting detection delay time<br>负载短路检测延迟时间 | 200 ~ 500μs                             |                             |
|                                        | Release condition 释放状态                                   | Cut-off-load 切断负载                       |                             |
| Internal resistance 内阻                 | Static Drain-Source On-Resistance 在静态漏源电阻                | <30mΩ ( B+ to P+ )                      |                             |
| Temperature<br>温度                      | Wide range of operation temperature 宽工作温度范围              | - 40 ~ + 85 °C                          |                             |
|                                        | Storage Temperature Range 存储温度范围                         | -40 ~ +125°C                            |                             |
| Dimension 尺寸                           |                                                          | L70*W18*T4mm                            |                             |

