

Protection Circuit Module Specifications For 2S 6.4V LiFePO4 Battery Packs

Model: PCB-LFP6V10A

| No. | Test item (Ta=25°C) | Criterion | |
|-----|---------------------------|--|----------------------------|
| 1 | Voltage | Charging voltage | DC: 7.2V CC/CV (3.6V/Cell) |
| | | Balance voltage for single cell | |
| 2 | Current | Balance current for single cell | |
| | | Current consumption | ≤25 μA |
| | | Maximal continuous charging current | 10A |
| | | Maximal continuous discharging current | 10A |
| 3 | Over charge Protection | Over charge detection voltage | 3.90 V ±0.025 V |
| | | Over charge detection delay time | 0.7S—1.3S |
| | | Over charge release voltage | 3.45 V ±0.05V |
| 4 | Over discharge protection | Over discharge detection voltage | 2.00 V ±0.05V |
| | | Over discharge detection delay time | 89—167mS |
| | | Over discharge release voltage | 2.50 V ±0.05V |
| 5 | Over current protection | Over current detection voltage | 0.2 V ±0.03V |
| | | Over current detection current | 50±10A |
| | | Detection delay time | 8ms—16ms |
| | | 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 | ≤30m Ω |
| 8 | Temperature | Operating Temperature Range | -40~+85°C |
| | | Storage Temperature Range | -40~+125°C |

P+=Charge+/Discharge+, P- =Charge-/Discharge- SIZE:L60*W26*T3mm

