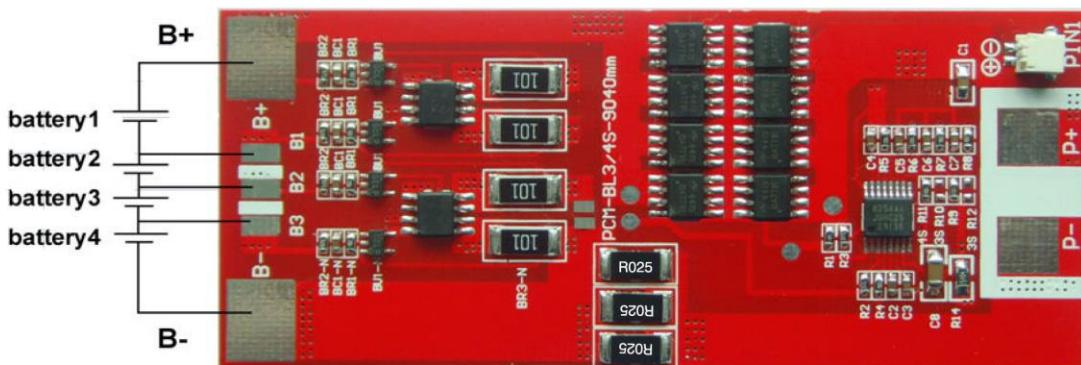


Protection Circuit Module Specifications For 12.8V LiFePO4 Battery Packs

Model: PCM-LFP12AS4 (LFP-4S)

No.	Test item	Criterion	
1	Voltage	Charging voltage	
		DC: 14.4V CC/CV (3.6V/cell)	
2	Current	Balance voltage for single cell	
		3.60V±0.025V	
		Balance current for single cell	
3	Over charge Protection (single cell)	36±3mA	
		Current consumption for single cell	
		≤50 μA	
4	Over discharge protection (single cell)	Maximal continuous Discharging current	
		12A	
		Over charge detection voltage	
5	Over current protection	3.900 ± 0.025 V	
		Over charge detection delay time	
		0.3S—2S	
6		Over charge release voltage	
		Over discharge detection voltage	
		2.30 ± 0.080 V	
		Over discharge detection delay time (C2=1U)	
7	Short protection	300-2000ms	
		Over discharge release voltage	
		2.70 ± 0.100 V	
8	Resistance	Over current detection voltage	
		0.30 ± 0.025 V	
		Over current detection current	
		35±5A	
9	Temperature	Detection delay time (C2=1U)	
		30ms—200ms	
		Release condition	
10	Resistance	Cut load	
		Detection condition	
		Exterior short circuit	
11	Temperature	Detection delay time	
		100-600us	
		Release condition	
12	Protection circuitry	Cut load	
13	Operating Temperature Range	≤30mΩ	
		-40～+85°C	
14	Storage Temperature Range	-40～+125°C	



P+ = Charge+/Discharge+ P- = Charge-/Discharge-