

Protection Circuit Module Specifications For 14.8V Li-ion/Li-po Battery Pack		
Model: PCM-L04S30-566 (Li-4S)		
No.	Test item ($T_a = 25^\circ C$)	Criterion
1	Voltage	Charging voltage
		DC: 16.8V CC/CV (4.2V/cell) Balance voltage for single cell $4.2V \pm 0.03V$
2	Current	Balance current for single cell $84mA \pm 5mA$
		Current consumption for single cell $\leq 20 \mu A$
		Maximal continuous charging current 20A
		Maximal continuous discharging current 30A
3	Over charge Protection (single cell)	Over charge detection voltage $4.25 \pm 0.025V$
		Over charge detection delay time 0.5S—2S
		Over charge release voltage $4.05 \pm 0.05V$
4	Over discharge protection (single cell)	Over discharge detection voltage $2.5 \pm 0.07V$
		Over discharge detection delay time 10—30mS
		Over discharge release voltage $3.0 \pm 0.1V$
5	Over current protection	Over current detection voltage $0.6 \pm 0.1V$
		Over current detection current 90-110A
		Detection delay time 5ms—15ms
		Release condition cut load
6	Short protection	Detection condition Exterior short circuit
		Detection delay time 100-500us
		Release condition cut load
7	Resistance	Protection circuitry (B- TO P-) $\leq 30m\Omega$
8	Temperature	Operating Temperature Range $-40 \sim +85^\circ C$
		Storage Temperature Range $-40 \sim +125^\circ C$
		Over Temperature protection (discharge) $60 \pm 5^\circ C$

P=Charge-/Discharge- Size:L60*W60*T5mm

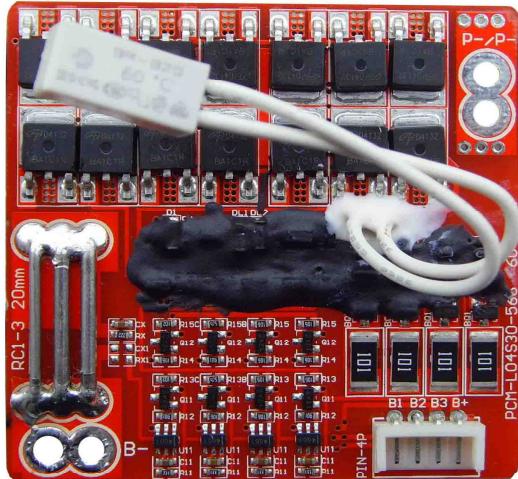


Diagram showing the connection of four batteries (Battery1, Battery2, Battery3, Battery4) in series to the protection module. The negative terminal B- is connected to the common negative rail of the batteries, and the positive terminal B+ is connected to the common positive rail.

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    graph LR
      B_minus[B-] --- B1
      B1 --- B2
      B2 --- B3
      B3 --- B4
      B4 --- B_plus[B+]
  
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