

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

Model:PCB-S4A5-GS

No.	Test item	Criterion
1	Voltage	Charging voltage DC: 16.8V CC/CV (4.2V/cell)
		Balance voltage for single cell
2	Current	Balance current for single cell
		Current consumption for single cell $\leq 50 \mu A$
		Maximal continuous charging current 4A
		Maximal continuous discharging current 4A
3	Over charge Protection (single cell)	Over charge detection voltage $4.350 \pm 0.025 V$
		Over charge detection delay time 0.3S—2S
		Over charge release voltage $4.150 \pm 0.050 V$
4	Over discharge protection (single cell)	Over discharge detection voltage $2.40 \pm 0.080 V$
		Over discharge detection delay time (CDT=1U) 500-1500ms
		Over discharge release voltage $3.00 \pm 0.100 V$
5	Over current protection	Over current detection voltage $0.15 \pm 0.025 V$
		Over current detection current (for Discharge Only) $5\pm 1A$
		Detection delay time (CDT=1U) 50ms—150ms
		Release condition Cut load
6	Short protection	Detection condition Exterior short circuit
		Detection delay time 200-800us
		Release condition Cut load
7	Resistance	Protection circuitry B+ TO P+ $\leq 60m\Omega$
8	Temperature	Operating Temperature Range $-40\sim +85^\circ C$
		Storage Temperature Range $-40\sim +125^\circ C$

**L50\*W16\*T3.5mm**

**P+,P- = Charge+/-,Discharge+/-**

