

## Protection Circuit Module Specifications For 3.6V Li-ion Battery Pack

No.	Test Item		Criterion
1	Voltage	Charging voltage	DC4.2V
		Balance voltage for single cell	
2	Current	Balance current for single cell	
		Low Current consumption for single cell	$\leq 10\mu\text{A}$
		Maximal continuous Discharging current	2.5A
3	Over charge Protection (single cell)	Over charge detection voltage	$4.30\pm 0.05\text{V}$
		Over charge detection delay time	80—200ms
		Over charge release voltage	$4.1\pm 0.05\text{V}$
4	Overdischargeprotection (single cell)	Over discharge detection voltage	$2.40\pm 0.1\text{V}$
		Over discharge detection delay time	40—100ms
		Over discharge release voltage	$3.0\pm 0.1\text{V}$
5	Overcurrent protection	Over current detection voltage	$0.15\pm 0.03\text{V}$
		Over current detection current	$4.0\pm 0.5\text{A}$
		Detection delay time	7.2ms—11ms
		Release condition	Automatic Recovery
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Automatic Recovery
7	Resistance	Protection circuitry (MOFSET)	$\leq 50\text{m}\Omega$
8	Temperature	Operating Temperature Range	$-40\sim +85^{\circ}\text{C}$
		Storage Temperature Range	$-40\sim +125^{\circ}\text{C}$