



Protection Circuit Module For 1S Li-ion/Li-polymer/LiFePO4 Battery Pack

No.	Test item		Criterion
1	Voltage	Charging voltage	CC/CV:Li-ion (4.2V/cell),
		Balance voltage for single cell	
2	Current	Balance current for single cell	
		Current consumption	$\leq 10\mu\text{A}$
		Maximal continuous charging and discharging current(continuous working current)	2.5A
3	Over-charge Protection (single cell)	Over charge detection voltage	4,325V \pm 0,025V
		Over charge detection delay time	0.96S~1,4S
		Over charge release voltage	4,075V \pm 0,025V
4	Over-discharge Protection(single cell)	Over discharge detection voltage	2,4V \pm 0,1V
		Over discharge detection delay time	115-173mS
		Over discharge release voltage	2,9 \pm 0,05V
5	Over-Current Protection	Over current detection voltage	0,15 \pm 0,05V
		Over current detection current(peak current)	4 \pm 0,5A
		Detection delay time	5-15ms
		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 (B- to P-)	$\leq 50\text{m}\Omega$
8	Temperature	Operating temperature range	-40~+85°C
		Storage temperature range	-40~+125°C
9	Size		L22.5*W4.4*T2.5mm
