PCM Specifications

Model: BMS - A304 Li-ion 3S

No	Test item		Criterion		
			Lifepo4	Li-ion/Li-polymer	
1	Voltage	Charging voltage	x	DC:12.6V CC/CV(4.2V/cell)	
		Balance voltage for single cell	x	/	
2	Current	Balance current for single cell	x	/	
		Current consumption for single cell	x	≤20μA	
		Max. continuous charging current	x	4A	
		Max. cont. discharging current	x	4A	
3	Over charge protection(single cell)	Over charge detection voltage	x	4.25±0.025V(optional)	
		Over charge detection delay time	x	0.5S—2.0S	
		Over charge release voltage	x	4.15 ±0.05V	
4	Over discharge protection(single cell)	Over discharge detection voltage	x	2.5±0.08V(optional)	
		Over discharge detection delay time	x	10-300mS	
		Over discharge release voltage	x	3.0±0.1V	
5	Over current protection	Over current detection voltage	x	depend on the above points	
		Over current detection current	x	final data fixed from actual test	
		Detection delay time	x	5-20ms	
		Release condition	x	Cut load,Auto release	
6	Short protection	Detection condition	Exterior short circuit		
		Detection delay time	100 ~ 500us		
		Release condition	charge up		
7	Resistance	Protection circuitry	≤50mΩ		
8	Temperature	Operating Temperature Range	-40 ~ +85℃		
		Storage Temperature Range	-40 ~ +125℃		
9	Dimension	L50*W16*T3mm			
Optional Parameters:		Over charge detection voltage (V)		4.25±0.025V	3.65±0.025V
		Over charge release voltage(V)		4.05±0.05V	3.65±0.05V
		Over discharge detection voltage		2.80±0.8V	2.50±0.8V
		Over discharge release voltage(V)		3.00±0.1V	3.00±0.1V