

ORION[®]

PCM Specifications

Protection Circuit Module Specifications For 14.8V Li-ion

Model: BMS 301 (Li-ion 4S8A)

No.	Test item		Criterion
1	Voltage	Charging voltage	DC:16.8V 4.2V/Cell
		Balance voltage for single cell	/
2	Current	Balance current for single cell	/
		Low Current consumption	≤50 μA
		Maximal continuous charging current	8A
		Maximal continuous Discharging current	8A
3	Over charge Protection	Over charge detection voltage	4.25±0.025V
		Over charge detection delay time	0.5—1.5S
		Over charge release voltage	4.15±0.05V
4	Over discharge protection	Over discharge detection voltage	2.70±0.08V
		Over discharge detection delay time	50—150mS
		Over discharge release voltage	3.0±0.1V
5	Over current protection	Over current detection voltage	0.20±0.015V
		Over current detection current	25±5A
		Detection delay time	10ms—30ms
		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	≤50m Ω
8	Temperature	Operating Temperature Range	-40~+85℃
		Storage Temperature Range	-40~+125℃

