

Protection Circuit Module Specifications For 48.1V

Model: BMS 1020 Li-ion (13S30A)

No.	Test Item		Criterion
1	Voltage	Charging voltage	DC:54.6V CC/CV
		Balance voltage for single cell	4.20±0.05V
2	Current	Balance current for single cell	42±5mA
		Current consumption for single cell	≤20 μA
		Maximal continuous charging current	5A
		Maximal continuous Discharging current	30A
3	Over charge Protection	Over charge detection voltage	4.25±0.05V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.05±0.1V
4	Over discharge protection	Over discharge detection voltage	2.50±0.1V
		Over discharge detection delay time	0.2S—1S
		Over discharge release voltage	2.50±0.1V
5	Over current protection	Over current detection current	100±20A
		Detection delay time	5ms—60ms
		Release condition	Cut load, Auto Recovery
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-800us
		Release condition	Cut load,Auto Recovery
7	Resistance	Protection circuitry	≤20mΩ
8	Temperature	Operating Temperature Range	-40~+70℃
		Storage Temperature Range	-40~+125℃

B+=P+=Charge+/Discharge+
CH-=Charge-
P-=Discharge- Size: L80*W60*T11mm

