

Protection Circuit Module Specifications For 14.8V Li-ion/Li-po Battery Pack

Model: SBS-LP14.8V-PC (4S)

No.	Test item (Test at normal temperature 25±2°C and relative humidity≤90%)		Criterion
1	Voltage	Charging voltage	DC:16.8V CC/CV (4.2V/1Cell)
2	Capacity	Designing battery capacity	3000mAh
		Max capacity (Battery pack)	15000mAHh
3	Current	Current consumption (Firmware running)	<600uA
		Current consumption (Sleep Mode)	<200uA
		Maximal continuous charging current	8A
		Maximal continuous discharging current	8A
4	Over Current (1st Level Safety)	Over charge detection current	6500mA
		Detection delay time	2s
		Over discharge detection current	12000mA
		Detection delay time	2s
5	Over Current (2nd level safety)	Over charge detection current	8000mA
		Detection delay time	1s
		Over discharge detection current	15000
		Detection delay time	1s
		Release delay time	8s
6	Over charge Protection (for single cell)	Over charge detection voltage	4.3±0.025V
		Over charge detection delay time	2S
		Over charge release voltage	3.9±0.05V
		Over charge detection release delay time	20s
7	Over discharge protection (for single cell)	Over discharge detection voltage	2.5±0.05V
		Over discharge detection delay time	2s
		Over discharge release voltage	3.0±0.05V
8	Over charge Protection (Pack) 1st Level Safety	Over charge detection voltage	17.5V
		Over charge detection delay time	2s
		Over charge release voltage	16V
9	Over charge Protection (Pack) 2nd Level Safety	Over charge detection voltage	18V
10	Over discharge protection (Pack)	Over discharge detection voltage	11V
		Over discharge detection delay time	2s
		Over discharge release voltage	12V
		Over discharge detection release delay time	0s
11	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Cut load
12	Resistance	Protection circuitry (B- to P- and B+ to P+)	≤100mΩ
13	Over temperature protection	Charge	55°C±5°C
		Charge delay time	2s
		Over temperature charge recovery	50°C±5°C

13	(1st Level Safety)	Discharge	60°C±5°C
		Discharge delay time	2s
		Discharge delay recovery time	55°C±5°C
14	Over temperature protection (2nd Level Safety)	Charge	65°C±5°C
		Charge delay time	0s
		Discharge	75°C±5°C
		Discharge delay time	0s
15	Temperature	Operating Temperature Range	-20~+85°C
		Storage Temperature Range	-20~+125°C

L90*W45*T6mm

P+,P- = Charge+/-,Discharge+/-

NTC=10K

