

Protection Circuit Module Specifications For 3.7V Li-ion/Li-Po Battery Pack

Model: PCB-S1A2-14500

No.	Test item		Criterion
1	Voltage	Charging voltage	DC:4.2V CC/CV
2	Current	Current consumption	$\leq 10 \mu A$
		Maximal continuous discharging current	1.5A
3	Over charge Protection	Over charge detection voltage	4.280±0.025V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.100±0.05V
4	Over discharge protection	Over discharge detection voltage	3.0±0.1V
		Over discharge detection delay time	10—30mS
		Over discharge release voltage	3.2±0.1V
5	Over current protection	Over current detection voltage	0.20v±0.025V
		Over current detection current	2.7±0.5A
		Detection delay time	5ms—10ms
		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	$\leq 60m \Omega$
8	Temperature	Operating Temperature Range	-40~+85℃
		Storage Temperature Range	-40~+125℃

IC: R5402N163KD (RICOH)

φ12mm

MOSFET: AO6808 (Alpha & Omega)

PCM
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