

# Protection Circuit Module Specifications For 44.4V Li-ion/Li-po Battery Pack

Model:PCM-LI12S20A

No.	Test item		Criterion
1	Voltage	Charging voltage	DC: 50.4V CC/CV (4.2V/1cell)
		Balance voltage for single cell	4.2V±0.03V
2	Current	Balance current for single cell	85mA±5mA
		Current consumption for single cell	≤20μA
		Maximal continuous charging current	20A
		Maximal continuous discharging current	20A
3	Over charge Protection (single cell)	Over charge detection voltage	4.25±0.025V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.05±0.05V
4	Over discharge protection (single cell)	Over discharge detection voltage	2.5±0.07V
		Over discharge detection delay time	10—30mS
		Over discharge release voltage	3.0±0.1V
5	Over current protection	Over current detection voltage	0.2±0.015V
		Over current detection current	80±10A
		Detection delay time	5ms—20ms
		Release condition	Cut load
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	100-600us
		Release condition	Cut load
7	Resistance	Protection circuitry (B- TO P-)	≤40mΩ
8	Temperature	Operating Temperature Range	-40~+85℃
		Storage Temperature Range	-40~+125℃

L130\*W45\*T12mm

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

