

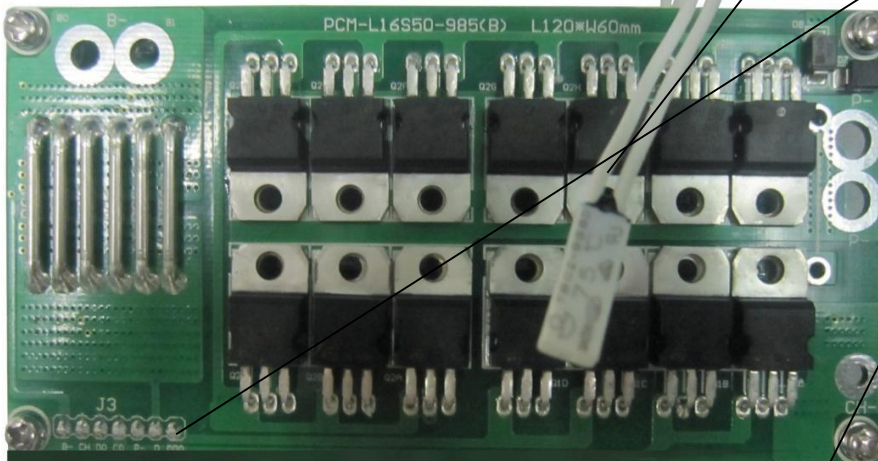
Protection Circuit Module Specifications For 44.4V Li-ion Battery Pack

Model: PCM-L16S50-985 (12S)

No.	Test item	Criterion	
1	Voltage	Charging voltage	DC:50.4V CC/CV
		Balance voltage for single cell	4.20±0.05V
2	Current	Balance current for single cell	84±10mA
		Current consumption	≤100μA
		Maximal continuous charging current	10A
		Maximal continuous Discharging current	60A
3	Over charge Protection	Over charge detection voltage	4.250V±0.05V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.15V±0.1V
4	Over discharge protection	Over discharge detection voltage	2.50V±0.1V
		Over discharge detection delay time	10ms—200ms
		Over discharge release voltage	3.0±0.1V
5	Over current protection	Over current detection current	180±30A
		Detection delay time	5ms—60ms
		Release condition	cut load
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-800us
		Release condition	cut load
7	Resistance	Protection circuitry (MOSFET) B-toP-	≤20mΩ
8	Temperature	operation Temperature range	-40~+70℃
		Storage Temperature Range	-40~+125℃

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

SizeL:120*W60*T17mm



switch temperature 75 degree, to detect battery temperature

This point control load switch, when connect PCM work normal, After disconnect no discharge current. when charging this point short circuit.

wire B12=B+ connect battery pack positive, charge/discharge positive from battery pack positive. PCM connect battery pack, wire connect according to the sequence.

B--Weld a power supply line with the proper diameter from the B- port of guard shield and connect it with negative pole of battery pack (B-);

Connect line B1 signed in the line-connection drawing with the second battery's pole in the battery pack;

Connect line B2 signed in the line-connection drawing with the third battery's pole in the battery pack;

Connect line B3 signed in the line-connection drawing with the fourth battery's pole in the battery pack;

Connect line B4 signed in the line-connection drawing with the fifth battery's pole in the battery pack;

Connect line B5 signed in the line-connection drawing with the sixth battery's pole in the battery pack;

Connect line B6 signed in the line-connection drawing with the seventh battery's pole in the battery pack;

Connect line B7 signed in the line-connection drawing with the eighth battery's pole in the battery pack;

Connect line B8 signed in the line-connection drawing with the ninth battery's pole in the battery pack;

Connect line B9 signed in the line-connection drawing with the tenth battery's pole in the battery pack;

Connect line B10 signed in the line-connection drawing with the eleventh battery's pole in the battery pack;

Connect line B11 signed in the line-connection drawing with the twelfth battery's pole in the battery pack;

Connect line B12=B+ signed in the line-connection drawing with the B+ battery's pole in the battery pack;

