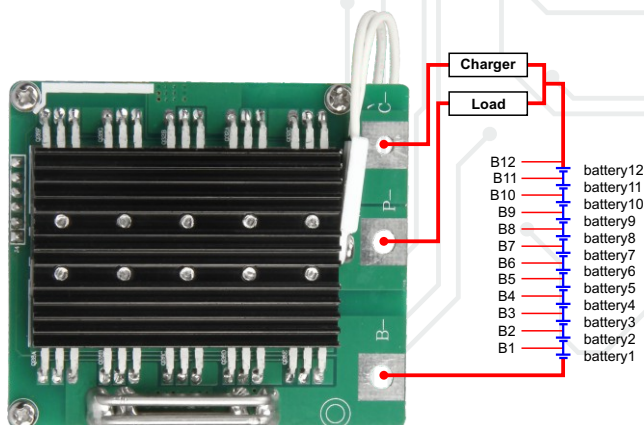


# Protection Circuit Module

## PCM / BMS / PCB

For 44.4V 12S Li-ion/Li-Polymer Battery Packs

Item		Contents	Criteria(Adjustable)
1	Model	HCX-D189L12S35A-03	12S-35A working current
2	Voltage	Charging voltage	50.4V
3	Current	Maximal continuous charging current	15A
		Maximal continuous discharging current	35A
		Current consumption	≤50μA
4	Overcharge Protection	Over charge detection voltage	4.28V±0.025V
		Over charge detection delay time	0.5~2S
		Over charge release voltage	4.08V±0.05V
5	Over Discharge Protection	Over discharge detection voltage	3.00V±0.05V
		Over discharge detection delay time	50~200mS
		Over discharge release voltage	3.00V±0.1V
6	Over Current Protection	Over current detection voltage	0.1V~0.2V
		Over current detection current	90A±10A
		Detection delay time	5~20mS
		Release condition	Cut load, automatically recover
7	Short Circuit Protection	Detection condition	Exterior shot circuit
		Detection delay time	200~500uS
		Release condition	Cut load, automatically recover
8	Balance	Balance voltage for single cell	4.20V±0.025V
		Balance current for single cell	84mA±10mA
9	Resistance	Inner resistance	≤20mΩ
10	Temperature	Operating temperature range	0 ~ +85°C
		Storage temperature range	0 ~ +85°C
11	Size (L*W*H)	L60mm*W60mm*H20mm	



### Remarks:

Charge, Discharge at same Port  
P+=B+/Charge+/Discharge+  
P-=Charge-/Discharge-

Note: Characteristics subject to change without notice

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