Protection Circuit Module

PCM / BMS / PCB
For 12.8V 4S LiFePO4Battery Packs

Data Sheet

Item	Contents		Criteria**(Adjustable)**
1	Model	HCX-D602(R5460N210AD)	4S-100A working current
2	Voltage	Charging voltage	14.4V
3	Current	Maximal continuous charging current	50A
		Maximal continuous discharging current	100A（peak 150A for 10 seconds)
		Current consumption	≤50μA
4	Overcharge Protection	Over charge detection voltage	3.65V±0.025V
		Over charge detection delay time	700mS-1300mS
		Over charge release voltage	3.45V±0.05V
5	Over Discharge Protection	Over discharge detection voltage	2.00V±0.07V
		Over discharge detection delay time	80mS-170mS
		Over discharge release voltage	2.50V±0.1V
6	Over Current Protection	Over current detection current	250A±40A
		Detection delay time	5mS-25mS
		Release condition	Cut load, automatically recover
7	Short Circuit Protection	Short circuit detection current	>=930A
		Detection delay time	150uS-500uS
		Detection condition	Cut load, automatically recover
8	Balance	Balance voltage for single cell	3.60V±0.025V
		Balance current for single cell	72mA±10mA
9	Resistance	Inner resistance	≤20mΩ
10	Temperature	Operating temperature range	0 ~ +85°C
		Storage temperature range	0 ~ +85°C
11	Size (L*W*T)	L180mm*W105mm*T28mm	

*Note: Characteristics subject to change without notice.

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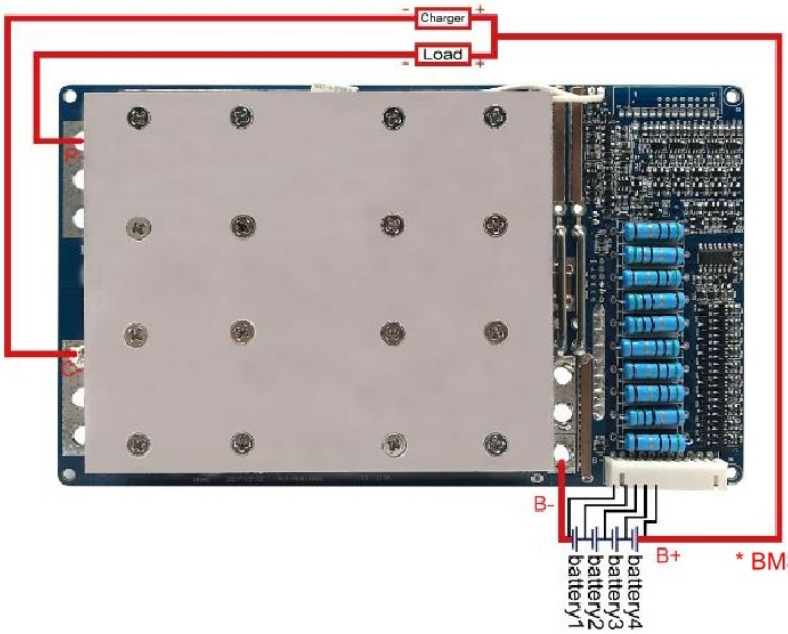
Connection Diagram



Remarks:

Charge,Discharge at separated port

P+=B+=Charge+/Discharge+

Ch-=Charge-

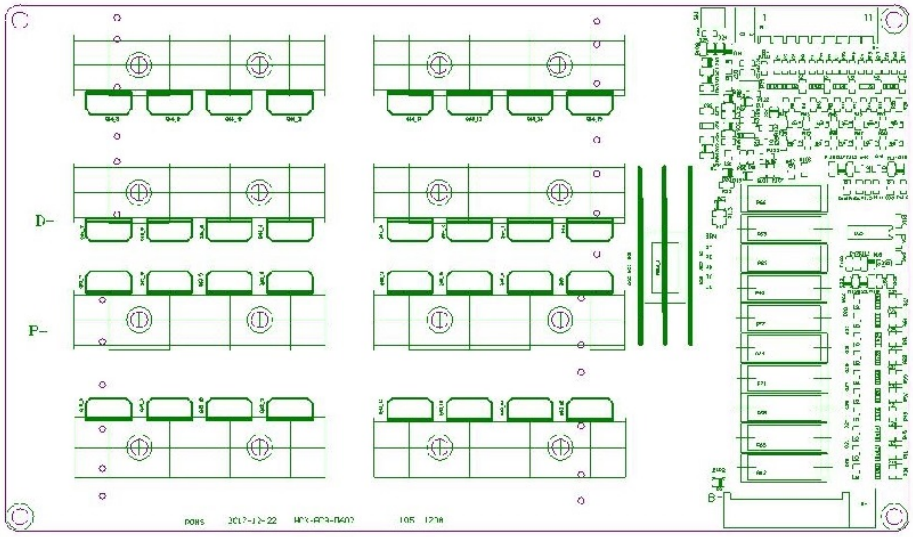
P-=Discharge-

* BMS with E-Switch/ON-OFF Switch (optional)

During charging and discharging,

The Switch should be on(connected)

PCB Layout:



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