

Protection Circuit Module

PCM / BMS / PCB

For 37V 10S Li-ion/Li-Polymer Battery Packs

Item		Contents	Criteria(Adjustable)
1	Model	HCX-D528V1LI10S70A-10 / 77905	10S-70A working current
2	Voltage	Charging voltage	42V
3	Current	Maximal continuous charging current	70A
		Maximal continuous discharging current	70A
		Current consumption	≤50μA
4	Overcharge Protection	Over charge detection voltage	4.25V±0.02V
		Over charge detection delay time	1S
		Over charge release voltage	4.05V±0.05V
5	Over Discharge Protection	Over discharge detection voltage	2.70V±0.05V
		Over discharge detection delay time	1S
		Over discharge release voltage	3.10V±0.1V
6	Over Current Protection (1st Protection)	Over current detection current	170±17A
		Detection delay time	700mS
		Release condition	Cut load, automatically recover
7	Over Current Protection (2nd Protection)	Over current detection current	280A±40A
		Detection delay time	350mS
		Release condition	Cut load, automatically recover
8	Temperature Protection (Multi NTC's are available)	Charge overtemperature protection	50°C
		Discharge overtemperature protection	70°C
		Charge undertemperature protection	0°C
		Discharge undertemperature protection	-20°C
9	Short Circuit Protection	Short circuit detection current	≥480A
		Detection delay time	360μS
		Release condition	Cut load, automatically recover
10	Balance	Balance voltage for single cell	4.20V±0.025V
		Balance current for single cell	126mA±15mA
11	Resistance	Inner resistance	≤20mΩ
12	Temperature	Operating temperature range	0 ~ +85°C
		Storage temperature range	0 ~ +85°C
13	Size (L*W*H)	L120mm*W80mm*H20mm	

Note: Characteristics subject to change without notice

LiTech Power Co., Ltd

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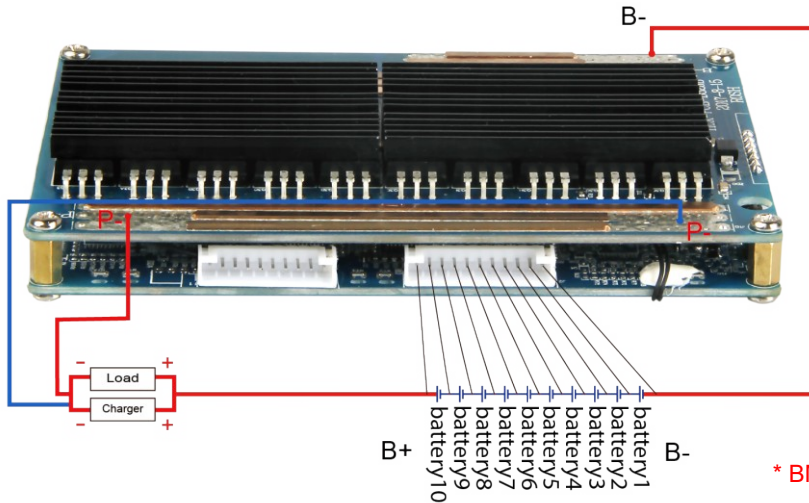
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Connection Diagram:



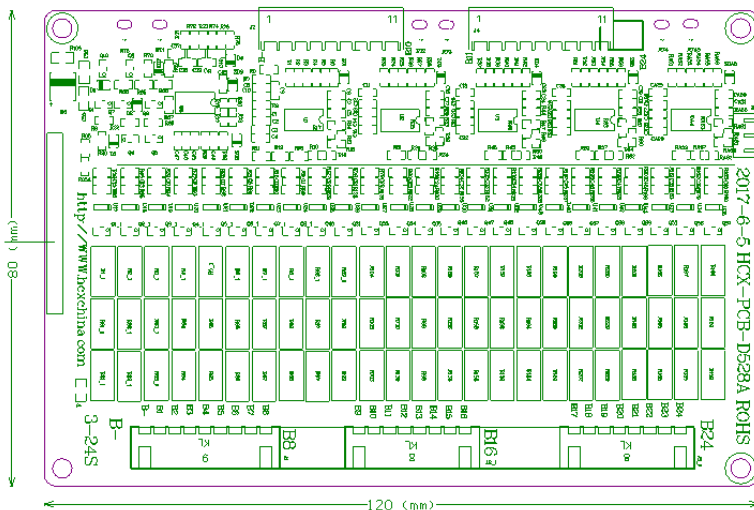
Remarks:

Charge, Discharge at same Port
 $P+=B+/\text{Charge+}/\text{Discharge+}$
 $P-=\text{Charge-}/\text{Discharge-}$

* BMS with E-Switch//ON-OFF Switch (optional)
 During charging and discharging,
 The Switch should be on(connected)

* Note: The blue cable in the wiring diagram is not mandatory, in case of high Temperature dissipation,
 we suggest to use two big cables for discharge, make sure the two cables at the same length.

PCB Layout:



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