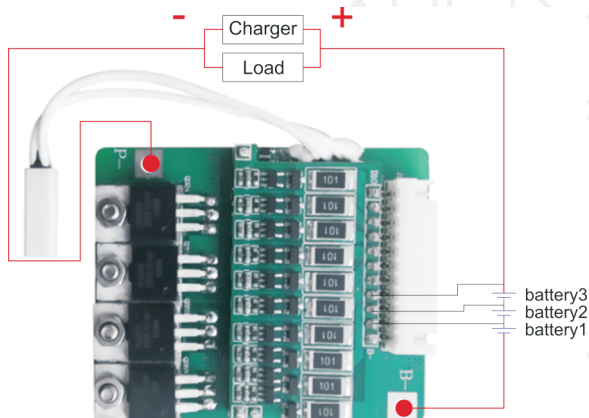


Protection Circuit Module

PCM / BMS / PCB

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

| Item | | Contents | Criteria(Adjustable) |
|------|---------------------------|--|---------------------------------|
| 1 | Model | HCX-D190L10S10A-06/G3P | 10S-10A working current |
| 2 | Voltage | Charging voltage | 42V |
| 3 | Current | Maximal continuous charging current | 10A |
| | | Maximal continuous discharging current | 10A |
| | | Current consumption | $\leq 50\mu\text{A}$ |
| 4 | Overcharge Protection | Over charge detection voltage | $4.20\text{V}\pm 0.025\text{V}$ |
| | | Over charge detection delay time | 0.5~2S |
| | | Over charge release voltage | $4.10\text{V}\pm 0.05\text{V}$ |
| 5 | Over Discharge Protection | Over discharge detection voltage | $2.80\text{V}\pm 0.05\text{V}$ |
| | | Over discharge detection delay time | 50~200mS |
| | | Over discharge release voltage | $2.90\text{V}\pm 0.1\text{V}$ |
| 6 | Over Current Protection | Over current detection voltage | 0.1V~0.2V |
| | | Over current detection current | $20\text{A}\pm 5\text{A}$ |
| | | 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 | $4.18\text{V}\pm 0.025\text{V}$ |
| | | Balance current for single cell | $84\text{mA}\pm 10\text{mA}$ |
| 9 | Resistance | Inner resistance | $\leq 20\text{m}\Omega$ |
| 10 | Temperature | Operating temperature range | 0 ~ +85°C |
| | | Storage temperature range | 0 ~ +85°C |
| 11 | Size (L*W*H) | L60mm*W50mm*H15mm | |



Remarks:

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

Note: Characteristics subject to change without notice

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