

# Protection Circuit Module Specifications For 48.1V Li-ion/Lipo Battery Packs

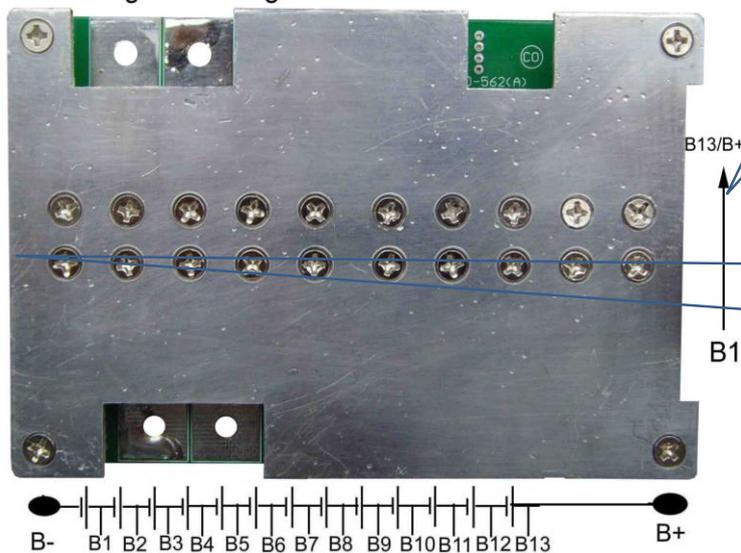
Model:PCM-L16S60-562(13S)

| No. | Test Item                 | Criterion                              |                         |
|-----|---------------------------|--|-------------------------|
| 1   | Voltage                   | Charging voltage                       | DC:54.6V CC/CV          |
|     |                           | Balance voltage for single cell        | 4.20±0.025V             |
| 2   | Current                   | Balance current for single cell        | 84±10mA                 |
|     |                           | Current consumption for single cell    | ≤20μ A                  |
|     |                           | Maximal continuous charging current    | 40A                     |
|     |                           | Maximal continuous Discharging current | 40A                     |
| 3   | Over charge Protection    | Over charge detection voltage          | 4.25±0.05V              |
|     |                           | Over charge detection delay time       | 0.5S—2S                 |
|     |                           | Over charge release voltage            | 4.05±0.1V               |
| 4   | Over discharge protection | Over discharge detection voltage       | 2.50±0.1V               |
|     |                           | Over discharge detection delay time    | 10mS—300mS              |
|     |                           | Over discharge release voltage         | 3.0±0.1V                |
| 5   | Over current protection   | Over current detection current         | 150±20A                 |
|     |                           | Detection delay time                   | 5ms—60ms                |
|     |                           | Release condition                      | Cut load, Auto Recovery |
| 6   | Short protection          | Detection condition                    | Exterior short circuit  |
|     |                           | Detection delay time                   | 200-800us               |
|     |                           | Release condition                      | Cut load, Auto Recovery |
| 7   | Resistance                | Protection circuitry                   | ≤20mΩ                   |
| 8   | Temperature               | Operating Temperature Range            | -40~+85℃                |
|     |                           | Storage Temperature Range              | -40~+125℃               |

P+=B+=Charge+/Discharge+

P- =Charge-/Discharge-

Size:L120\*W80\*T30mm



接线图作为连接参考，请参照实际样品。  
Connection diagram as a reference, pls refer to real sample.

温度开关65度，用于检测电芯温度。Temperature switch 65 degrees, the batteries used in the detection of temperature.

1.Rows of bottom-up followed by B - to B +(direction according to the above picture)

2.The wiring must be according to the above order,(B-, B1, B2... B13 = B +), otherwise it will lead to bad performance!