PCM-T-36 Technical Specification

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1. General Description

PCM-T-36 is a 10-cell Li-ion protection board which is made by XIAMEN TOB NEW ENERGY TECHNOLOGY Co.,LTD. The board has many perfect characters such as high detection precision of Voltage, strong anti-interference ability. The negative pole of load and charger is the same line in the protection board.

Protection board function

2.1 Can connect 10 piece battery pack

2.2 充电保护 (Charge Protection)

名 称（Title ）	项 目（Item ）	典型值 (Typical)	精度（Precision ）	单 位(Unit)
过压保护 (Over voltage)	过充保护电压 OV	4250	±25	mV
	过充延迟 OV Delay	1000	±200	ms
	过充恢复电压 OV Release	4150	±50	mV
	过充恢复延迟 OV Release Delay	100	±50	ms

2.3 短路保护(Short Circuit)

名 称(Title ）	项 目（Item ）	
短路 (Short Circuit)	短路保护 Short Circuit	有
	短路恢复条件 SCRecoveryCondition	断开负载

2.4 放电保护(Discharge Protection)

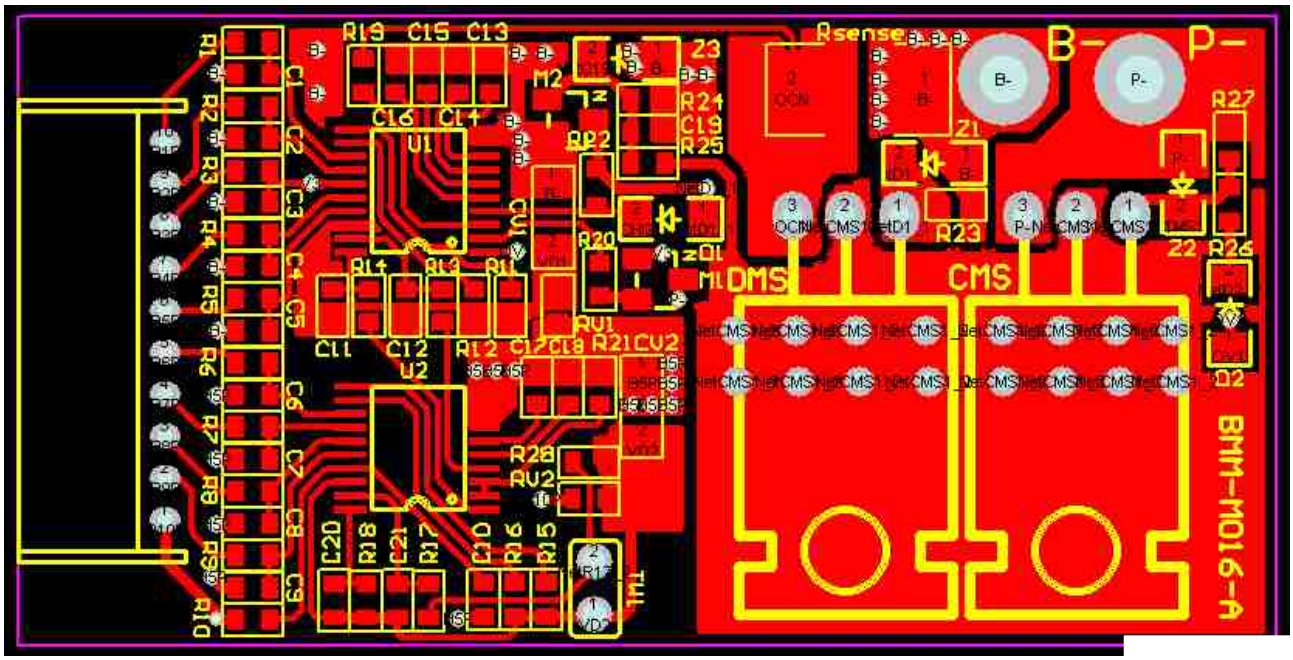
名 称（Title）	项 目（Item）	典型值 (Typical)	精度（Precision ）	单 位(Unit)
欠压保护 (UnderVoltage)	过放保护电压 UV	2750	±80	mV
	过放延迟 UV Delay	100	±50	ms
	过放恢复电压 UV Release	3000	±100	mV
	过放恢复延 UV ReleaseDelay	100	±30	ms
放电过流 (Over Current)	放电过流值 DOC	25	±3	A
	放电过流延迟 DO Release Delay	100	±30	ms
	恢复条件 DOC Recovery Condition	断开负载		

2. 电气参数 Electrical Parameters

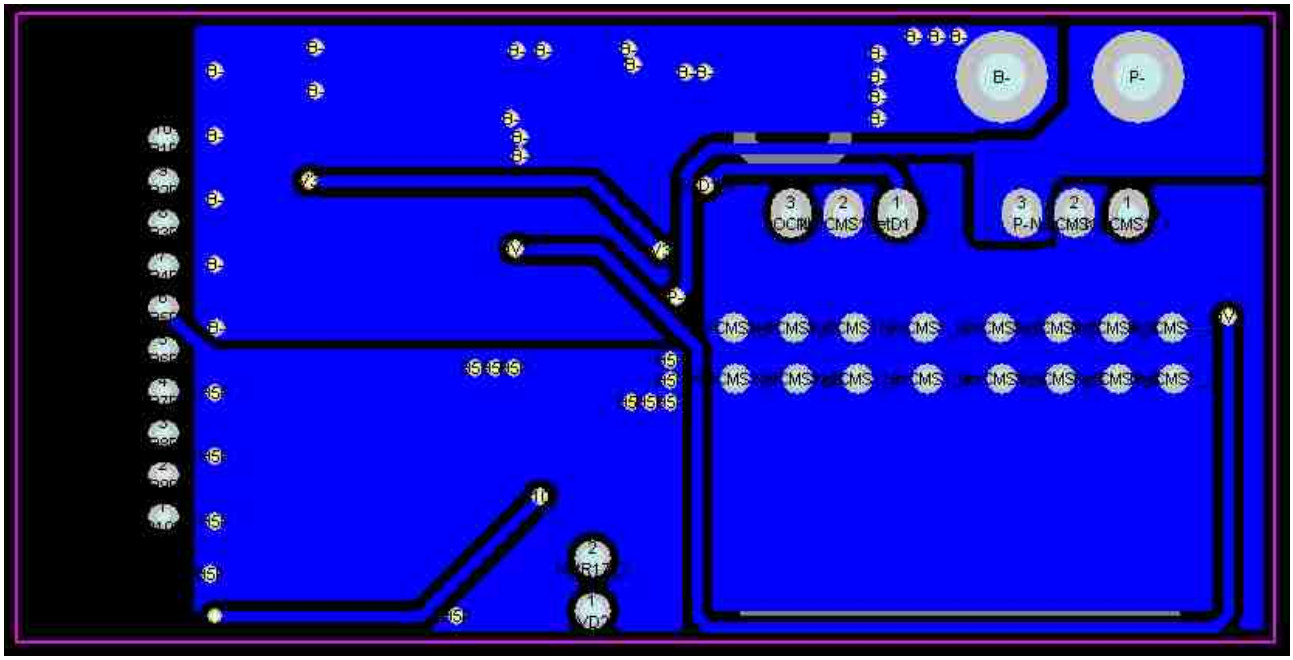
项 目（Item）	Min	Max	Type	Unit
正常工作电压 Operating Voltage	28	42	39	V
正常充电电压 ChargingVoltage	8	43	40	V
工作温度范围 Operating Temperature	-10	70	25	℃
持续工作电流 Continuous Operating Current		15	12	A
内阻 Internal Resistance	<15			mΩ
The static power consumption	<30			uA

3. PCB Layout

4.1 Top



4.2 Bottom



4. 外形结构 Formal

电路板尺寸 Size of Protection Circuit：

Length*width*high=30mm*60mm*08mm

5. 接线说明表：

Item	Details
B-	连接到电池的总负极 Connect to Anode(+) Side of Cell 1
HD1	**Connect cathode (+)of the battery from R1 to R10**
P-	充放电负极端口 Charge and discharge anode (-) port

6. 连接保护板的步骤：Connect step

1：Connect **B-** to the battery pack anode (-)

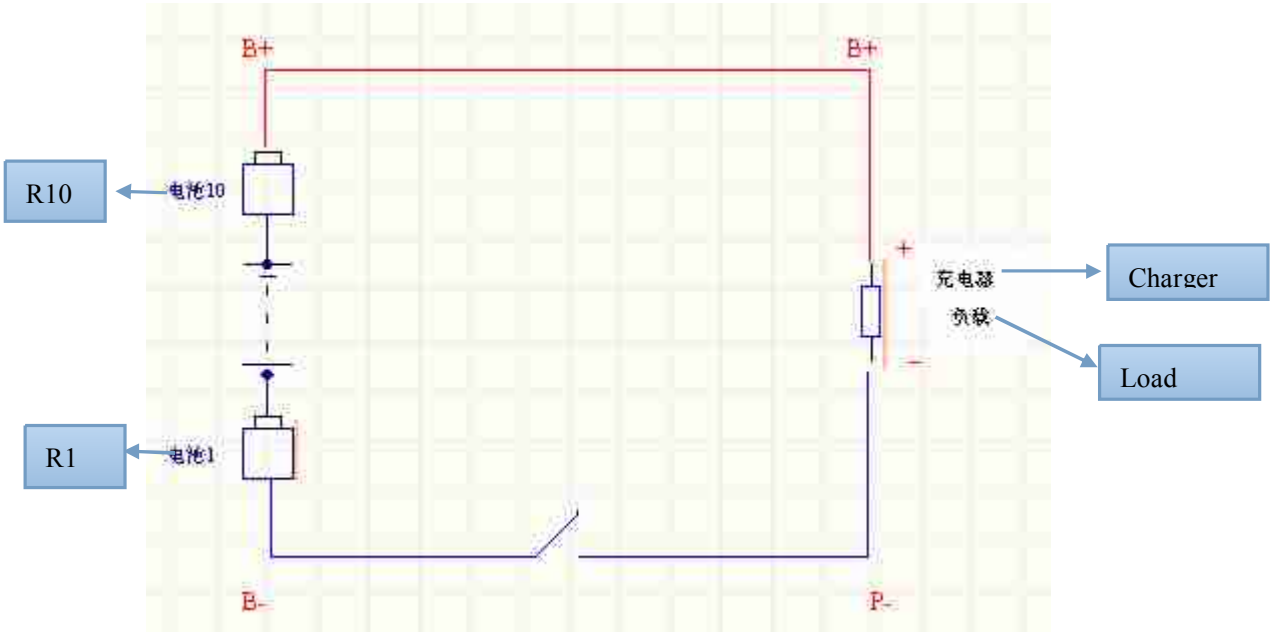
2：Connect HD1(Voltage detection terminal socket) to PCB(circuit board)

When charging, connect the charger Cathode(+) to the battery pack cathode(+), connect the charger anode(-) to the PCB P-. When discharging, connect the load

cathode to the battery pack cathode, connect the anode to PCB P-.

7. 连接示意图

充放电连接示意图 Connection Schematic diagram of charging and discharging



8. 拆除保护板的步骤：Disassembling step

1 ： Remove connection protection voltage detection plug board;
2 ： Then remove the terminal protection board and B- / P- connection

注意：

把保护板接到电芯上，或是从电池组拆下保护板时，必须遵守上诉连接顺序，若不按要求的顺序作业，会使保护板的元器件损坏，从而导致保护板不能保护电芯，后果自负。

Note:

Must comply with the operating sequences when connection the PB to battery package or removal the PB from the battery package. We are not responsible for the components damage of PB due to the mistakes of connection sequence.