产品规格书

48V 13cell 40A lithium battery protective board with temperature control for electric car size: 120*60*15MM

样品型号: 12060-13S-40A 样品编号: YHZX20201024006

物料编码: 出样日期: 2020-10-24

■ 送样 □批量

批准	审核	拟定

综合	判定:					
客户	⁾ 确认	争认		日期		
变更履历表						
版本	日期	变更前内	变更前内容 变更后内容		变更原因	
A	2020-10-24					

样品承认书	型号: 12060-13S-40A	编号: YHZX20201024006
版本: A	页码: 3 共 7 页	日期: 2020-10-24

1.Protect board electrical performance parameters

注: 以下测试环境均为 25℃,相对湿度≤90%所测出的保护板范围值,非常温下可能有所不同,该电路的工作温度范围为-40--85℃,IC 具体测试条件及测试电路请参照保护 IC 之规格书说明。

Note: The following test environment is 25 °C, relative humidity ≤ 90% of the measured protection plate range value, very temperature may be different, the circuit operating temperature range is -40--85 °C, IC specific test conditions and test circuit please refer to the protection IC specifications.

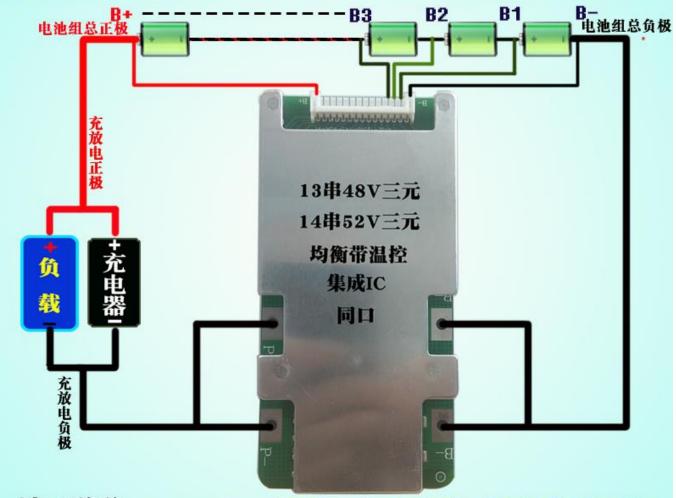
, i				
检测项目	Min	Тур	Max	Unit
Input voltage (between B+ and B-)		54.60		V
Overcharge protection voltage	4.225	4.25	4.275	V
Overcharge discharge voltage	4.10	4.15	4.20	V
Overcharge protection delay time		1000		ms
Overdischarge protection voltage	2.65	2.70	2.75	V
Overdischarge release voltage	2.90	3.00	3.10	V
Overdischarge protection delay time		1000		ms
Overcurrent protection	100	120	140	Α
Continuous current		40		
Overcurrent protection delay time		1000		ms
Self-consumption current		10	25	uA
Protection plate internal resistance		15	20	mΩ
Short-circuit protection	Disconnect the load			
Short-circuit protected delay time		250		us
Maximum operating temperature	-40	30	85	°C
range				

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2. Schematic diagram of circuit wiring:



YHZX-12060-13S/14S接线示意图



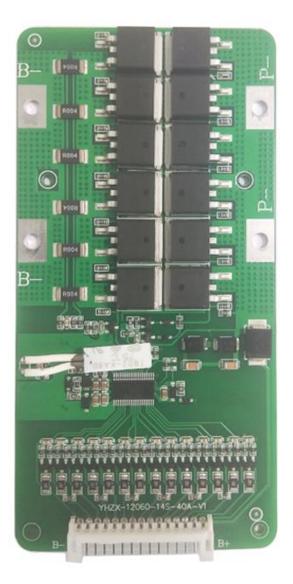
端口说明:

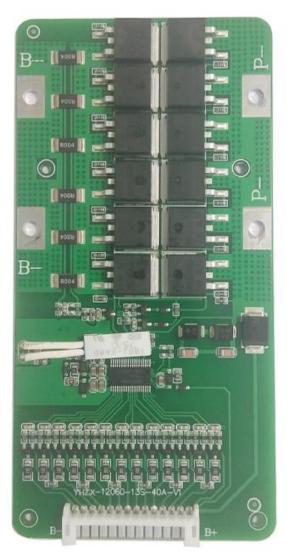
1、B1,B2,B3 -----分别对应第一节,第二节和第三节电池的正极;依次类推;B-是第一节电池的负极也是总负极;B+是最后一节电池的正极也是总正极;2、如图所示的负载和充电器的接法只是表示充电和放电的接口,但不代表负载和充电器是同时并联接入使用的;

Port Description:

- 1. B1. B2,B3....... correspond to the positive electrodes of the first, second and third batteries, respectively; And so on; B- is the negative electrode of the first battery and also the total negative electrode; B+ is the positive pole of the last battery and also the total positive electrode;
- 2. The connection method of load and charger as shown in the figure only indicates the interface of charging and discharging, but does not mean that the load and charger are connected and used in parallel at the same time.

3. Physical obverse:





SIZE: 120mm*60mm*10mm

4. PCIM Craft			
Processing technology conforms to UL, 94V0 fire ra	ROHS □ REACH	□HF halogen-free	Material <u>FR4</u> Material
PCB copper film internal res	istance ≤ <u>15mΩ</u>	Copper thicknes	s: <u>10Z</u> Through the hole
Solder resistance oil <u>G</u>	reen oil Silk scr	reen oil <u>White</u> I	Board layer <u>2 layers of board</u>
Solder plate treatment	Solder Coating	Gold finger gold plat	ing thickness Au≥
Goldfinger □High temp	perature glue	□Blue glue	
Forming mode Compu	ter milling + V-cut	□Die punching	
	I		T
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5. Product application range		
2.1 ternary liquid lithium-ion rechargeable battery		
2.2 polymer lithium-ion rechargeable battery		