Shenzhen Banwang Technology Co., LTD

Product specification document

customer name		Customer model	
Send sample date		Company model	**BW-6248-4S**
order of the edition	A1	paginal number	4

approval	examine and verify	protocol
Material number		

Customer confirmation column

Confirm opinion:

signature:

date:

special explanation:

1. After receiving the samples, the customer should organize the test in time, and return the test results to our company, so as to facilitate our company to arrange the follow-up work of this project. If no reply is made within 5 days, the company defaults that the customer passes the test, and the project is completed normally.
2. If the customer passes the test, please indicate the product name or product code in the customer opinion column, and seal the signature for confirmation. Otherwise, please point out the problem in the customer confirmation column and put forward suggestions for improvement.
3. Our company can only receive the order after receiving the original signature of the customer and attaching the detailed function description of the product description.

content

1 : summarize:

This specification is only applicable to the 4-string lithium iron 3.2V lithium-ion battery protection circuit manufactured by Banwang Technology Co., LTD.

2 : applied range

(1) Lithium-ion battery pack

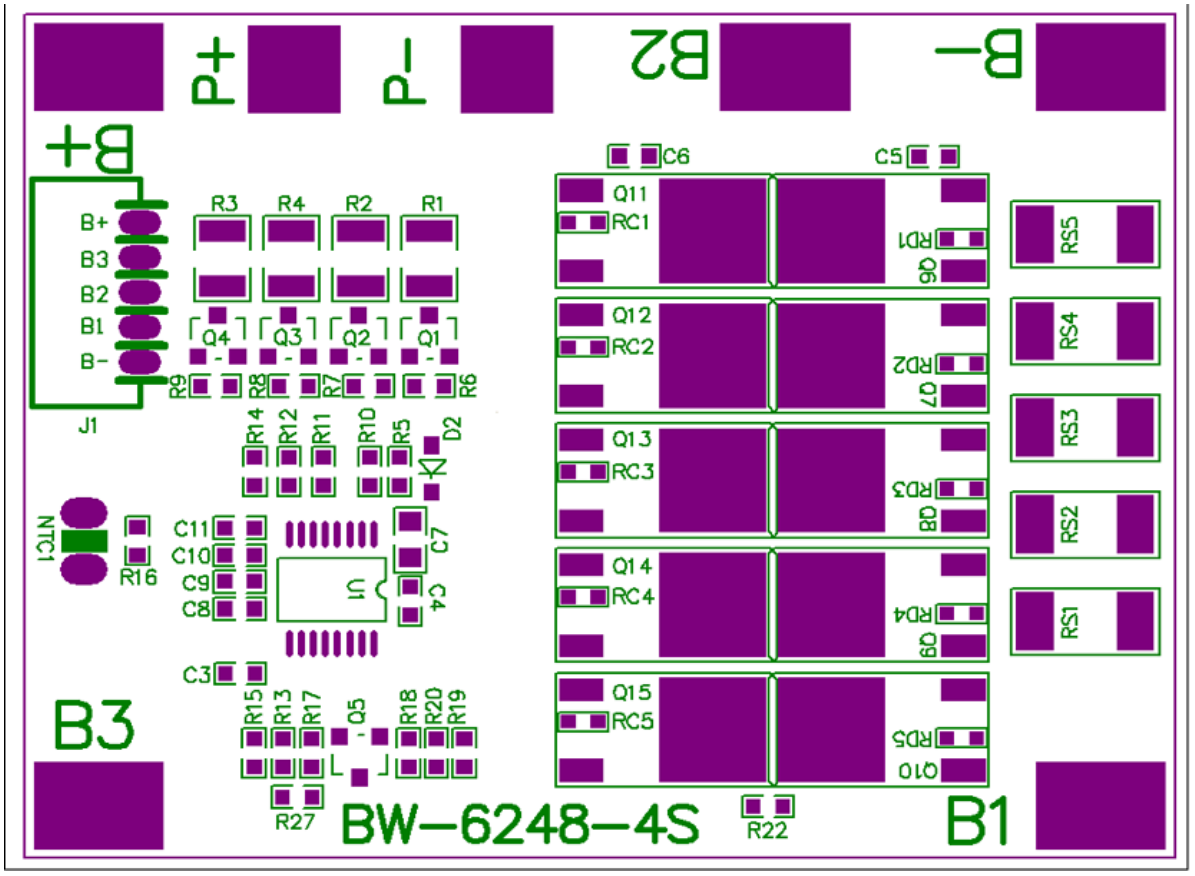
(2) Lithium-ion polymer battery pack

3: Electrical characteristics

project	detail	standard
Overcharge protection	Single-body overcharge protection voltage	3.65V±0.05V

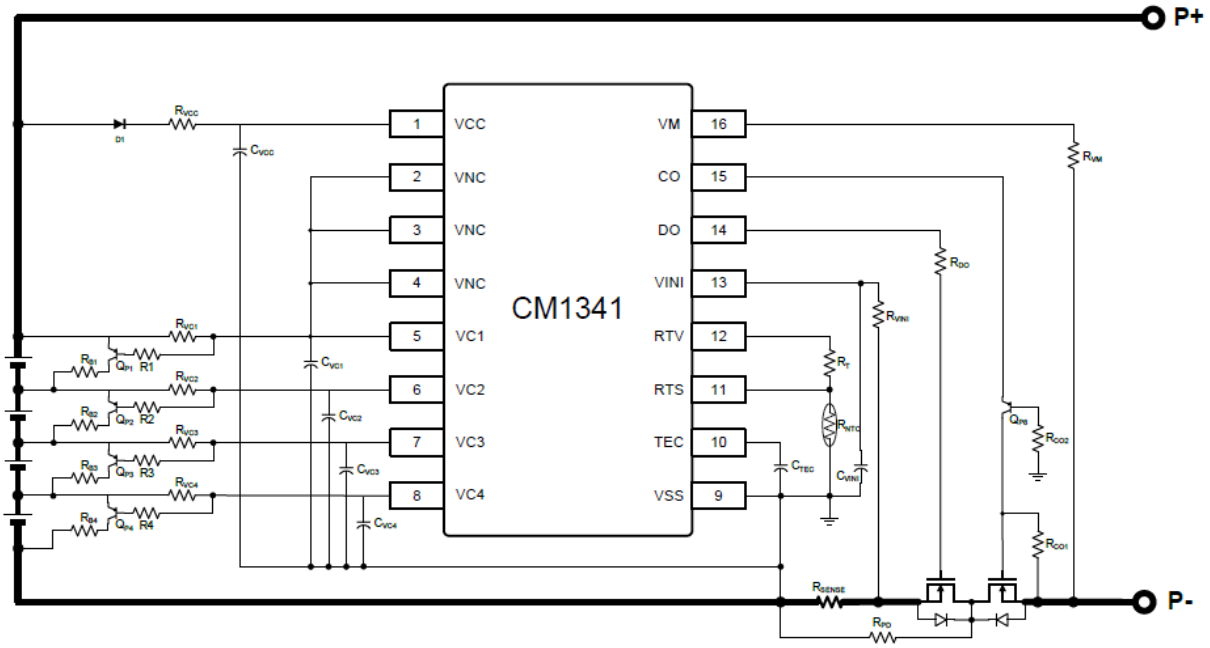
	Single-body overcharge release voltage	3.55V±0.05V
Active balanced	Balanced voltage	3.525V ±0.025V
	equalizing current	≤680MA
Charging protection	Rated charging current	≤15A
	Reverse charging protection	not have
Over-release protection	Single-unit overdischarge protection voltage	2.3V±0.05V
	Single body overdischarge and release voltage	2.5V±0.05V
	Discharge of the continuous working current	22A ±2A
	Discharge instantaneous protection current	65A ±2A
short-circuit protection	Whether there is short circuit protection	have
	Short-circuit protection recovery condition	Disconnect the load
Temperature protection	Overtemperature to protect the temperature	apolegamy
	Recovery temperature / time	/
internal resistance	B-, P-conduction on internal resistance	≤60mΩ
Consumption of current	Self-consumption of electricity	≤30μA
(L * W * H) dimensions	size	62*48*4 mm

4: Patch diagram



5:

Schematic diagram



6: Main material clearance

1. It is

order number	Material name	model	symbol	dosage	brand
1	Lithium battery protects IC	CM1341-GAT	U1	1	Create core micro
2	MOS	3080-252	Q6 Q7 Q8 Q9~Q13 Q14 Q15	10	
3	alloy resistance	R005 2512 5%	RS2 RS3	1	Tai yi
4	resistance	68R 1206 5%	R1 R2 R3 R4	4	Hua Xingke
		47R 0603 5%	RD2 RD3 RC12 RC13	4	
		1K 0603 5%	R10 R12 R13 R14	4	
		330K 0603 5%	R6	1	
		2K 0603	R17	1	
		3M 0603	R22	1	
		10M 0603	R18 R19 R27	2	
		20K 0603	R20	1	
		100K 0603	R15	1	
		100R 0603	R5 R6 R7 R8 R9	4	
5	dynatron	5401 SOP-23	Q1 Q2 Q3 Q4 Q5	4	Depp micro
6	electric capacity	1UF 0603 50V	C3 C4 C5 C6 C8 C9 C10 C11	1	Hua Xingke
		2.2UF 0603 25V	C7		
7	diode	1N4148 D2	D2		Depp micro

forbidden to use two or more protective plates in series and in parallel

2. If there is any abnormal situation during the use process, please stop using it immediately and

send it back to the original factory or ask the professional maintenance personnel for maintenance

3. Pay attention to the lead head, electric iron, tin slag, etc., do not touch the components on the circuit board, otherwise easy to damage the protection board

4. When testing, installing, using and contacting the protective plate, the corresponding anti-static measures should be taken

5. The use of the product must follow the use conditions stipulated in this specification. If the violation of this specification, it is easy to damage the protective plate, and then damage the battery pack.