



CERRO POWER SHENZHEN CERRO POWER COMPANY LTD

SHENZHEN CERRO POWER COMPANY LTD

产 品 规 格 书

SPECIFICATION FOR APPROVAL

BMS: 7S-15A

PRODUCT MODEL: CP-041-7S-15A-02XX-0501G

PRODUCT: PROTECT BOARD OF 7 CELL LI-ION BATTERY

Model: 7S-15A

Application: _____

Author: _____

Review: Chen Xiaohu

Approval: Yongjun Yan

Date: July 07, 2014

ORIGINAL

SHENZHEN CERRO POWER COMPANY LTD

Add: Room 8H, Luhua Building, Guangxia Road, Futian District, Shenzhen, China 518109

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1、概述 Summarize

1.1 The specification is suitable to the Li-ion rechargeable battery PACK ON 7 CELLS IN SERIES produced by SHENZHEN CERRO POWER COMPANY LTD

1.2 OVER CHARGE, OVER DISCHARGE, OVER CURRENT AND SHORT CIRCUIT FUCTION.

2. Basic characteristics

3.1 Normal performance

SERIES	TESTING ITEM	MIN	TYPICAL	MAX	UNIT
1	Charge Voltage	29.20	29.40	29.60	V
2	Charge MOS MAX withstand voltage			DC80	V
3	Discharge MOS MAX withstand voltage			DC80	V
4	Charge current		5	8	A
5	Continue discharge current		15	18	A
6	Over current protect (100A electronic Load)	45	52	60	A
7	Over discharge protect time delay	80	120	160	ms
8	self-discharge of Single cell (3.30V)	15	25	32	uA
9	over charge voltage detect of /Cell	4.17	4.20	4.25	V
10	Over charge voltage reset /Cell	4.05	4.10	4.15	V
11	Over charge time detect delay/Cell	0.5	1.0	2.0	S
12	Over discharge voltage detect delay/ Cell	2.67	2.75	2.83	V
13	Over discharge voltage reset/cell	2.90	3.00	3.10	V
14	Over discharge time detect	0.5	1.0	2.0	S
15	Short Circuit/Discharge/Over current protect reset	Disconnect of the load then will reset			
16	Short Circuit protect delay	300	500	700	uS
17	Protect Board internal resistance		8	15	mΩ
18	Max Temperature of normal current		50	65	℃
19	Working temperature	-20	25	45	℃
20	Store Temperature	20	25	30	℃
21	Store Humidity	≤ 40			%

3 WIRE CONNECT:

A: Main wire:

1. P- Connect to Load Negative (Silicon wire 3135/Blue/14awg/L: 150mm)
2. B- Connect to Battery Negative (Silicon wire 3135/black/14AWG/L: 150mm)

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3. C- Charger Negative (Silicon wire 3135/Yellow/18AGW/L: 150mm)

B: Voltage testing wire (side by side connector)

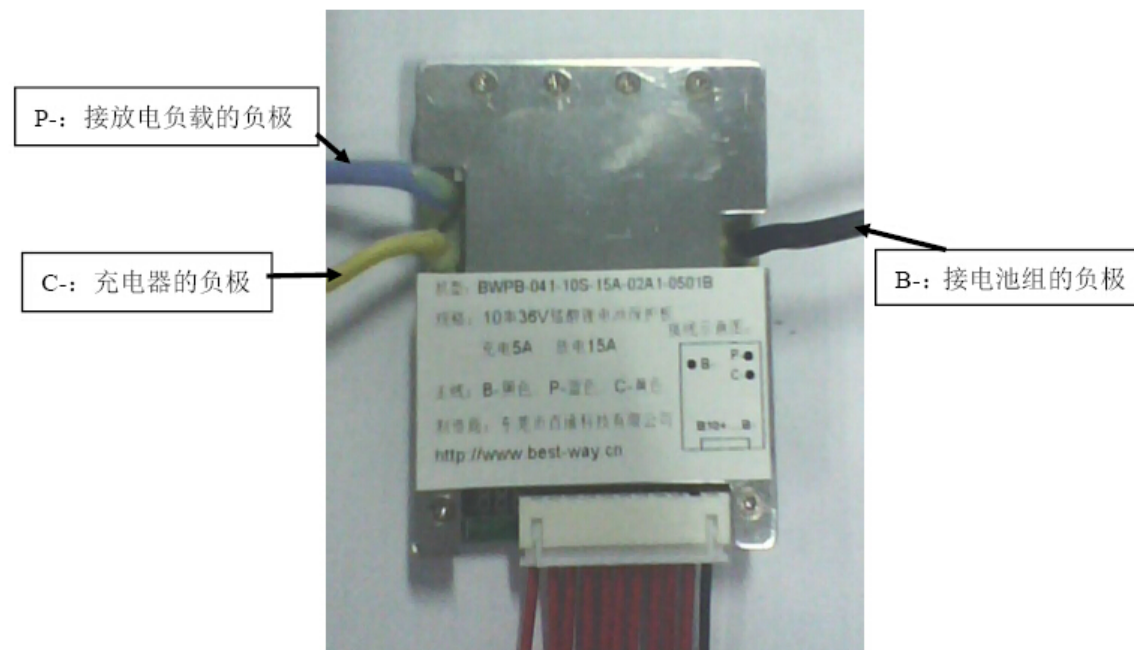
1. Protect Board 8 Pins from Black (from right to left).

B-/B1+/B2+/B3+/B4+/B5+/B6+/B7+/B8+)+ (B+)

UL 1007 22# AWG L=300mm; B-: Black B1-B7: Red

C: photo reference.

(B- Connect to Battery pack negative; P- connect to Load negative ; C- connect to the charger negative)



Remark:

A: The black wire on the connector is **B-Wire**, while connecting, please connect the B- first, then the signal wire, and last connect the charge and discharge wire, while disconnecting, please disconnect the Charge and discharge wire first, then the signal wire, then the Black wire, please pay more attention on the steps. Please don't wrong connecting, otherwise, the it will damage the IC components on Board.

B: When connecting, signal wire B- Welding spot and wire on main Board PCM B-, need to be close. And Wire on Main board should be shorter.

4 PCM size

L: = 70mm W: = 51mm , H: ≤12mm

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