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1. Overview

The ECB240 is a battery pack charging, discharging, and equalization all-in-one machine developed by SmartSafe. It is primarily used for balancing the voltage between cells in new energy vehicle battery packs with significant voltage differences, improving battery performance and extending the battery pack's lifespan. This product primarily achieves independent balancing control for each connected cell. It uses low voltage and high current to precisely adjust each connected cell to the same voltage level, according to the user's set voltage target. It is also possible to quickly charge and discharge the battery pack using high voltage and high current at the group terminal, allowing the battery level to rapidly reach the target setting.

2. Product Features

- Integrates charging, discharging, and equalization modes into one unit, offering versatile functionality and significantly enhancing the maintenance efficiency and flexibility of battery packs.
- Equipped with various built-in cell equalization and charging/discharging control modes, compatible with mainstream battery types like ternary lithium, lithium iron phosphate, and lithium titanate, to meet the maintenance needs of different battery packs.
- Supports a maximum charging current of 40A and a discharging current of 20A, catering to high-power maintenance scenarios and significantly boosting work efficiency.
- 24-channel cell synchronous equalization, precisely controlling cell voltage differences, effectively improving battery pack consistency.
- Supports multiple control methods such as constant voltage charging and constant current discharging. Combined with customizable target voltage/current parameter settings, it can simulate various real-world usage scenarios to comprehensively test battery pack performance.
- Provided with multiple protection mechanisms, including overvoltage, undervoltage, overcurrent, short circuit, reverse connection, and over-temperature protection, ensuring the safety of the battery and device during testing.
- Supports communication with the device via WIFI, Bluetooth, USB, and more, allowing real-time collection and recording of key parameters such as cell voltage, current, and voltage difference. Automatically generates charts and test reports for easy data analysis and tracking.

- The testing process supports setting protection thresholds and automatic shutdown conditions to ensure that tests are promptly terminated in abnormal situations, protecting the battery from damage.
- Equipped with a 10.1-inch high-definition touchscreen, the user interface is simple and intuitive, making battery pack testing and maintenance easier, more efficient, and reliable.

3. Precautions for Safe Use

3.1 Method for safe use in general conditions

Follow the user manual to operate this device.

3.2 Error-prone method of use or misoperation

1) The tools used are not properly insulated.

2) Failure to operate the device according to the user manual.

3.3 Harms that may result from improper use

1) The tools used being not properly insulated, and the positive and negative terminals of the battery pack being too close can easily cause a short circuit accident.

2) Failure to follow the correct operating procedures will result in the device not functioning properly.

3.4 Emergency response measures in case of abnormal situations

Disconnect the power supply and test cables.

3.5 Precautions for special situations

If the operator fails to implement proper insulation measures or mishandles operations causing a short circuit, the cable should be promptly disconnected.

3.6 Other safety warnings

Strictly adhere to safety operating procedures and the correct method of use of the device.

4. Technical Specifications

Parameter name	Description
Model	ECB240
Operating power supply	AC 100~240V, 50/60Hz
Operating voltage	Discharging voltage: DC 0~5V, Charging voltage: DC 0~110V
Voltage detection accuracy	±0.1%FS + 5mV (maximum range 5V)
Operating current	Discharging current: 0.1~20A, Charging current: 0.5~40A
Current detection accuracy	±0.5%FS±0.05A (maximum range 20A)
Operating power	Maximum discharging power: 2.4 kW, maximum charging power: 3.2 kW
Number of equalization channels	2×12
Battery interface	The charging end includes positive and negative electrode interfaces, and the discharging end includes a 24 channels of voltage acquisition interface
Display	10.1 inches, resolution 1280*800
PC data communication	TCP/IP, USB Device
Wireless communication	Wi-Fi
Data transfer	USB drive
Operating modes	Constant current charging + Constant voltage charging
Operating modes	Constant current discharging + constant voltage discharging
Protection mechanism	Input overcurrent protection, overvoltage protection; output overcurrent protection, over-temperature protection; supports reverse connection and cross-connection protection.
Cooling	Forced air cooling
Operating temperature	-5℃~45℃
Storage temperature	-20℃~70℃
Operating humidity	5%~93%
Storage humidity	5%~93%
Dimensions	446 X 349 X 435 mm

5. Operation and Use

5.1 Device interfaces and buttons





No.	Name	Description
1	Indicator light	A steady green light indicates the device is in standby mode. A green flashing light indicates it's working. A steady yellow light indicates a non-stop warning. A flashing red light indicates a device malfunction or shutdown warning.
2	Buzzer hole	Buzzer sound hole.
3	Communication interface	Used for communication and other expandable functions.
4	Channel 2	Used for connecting a 12-pin cell voltage acquisition wire.
5	Channel 1	Used for connecting a 13-pin cell voltage acquisition wire.
6	USB interface	Used for exporting data, upgrading via USB, and connecting a USB wireless adapter.
7	DC output port	Used for inserting the DC high voltage interface plug and connecting the positive and negative terminals of the battery module.
8	Screen	10.1-inch touch screen.
9	Handle	Easy to carry the device.
10	Grounding terminal	For device grounding.
11	Power input port	Used for connecting to the AC power supply.
12	Power switch	Used for turning on/off communication input.
13	DC switch	Used for turning on/off DC output. When turned on: The device can output according to the set parameters. When turned off: The output port is closed and cannot output.

5.2 Device connection



Output DC cable connection

Insert the DC high-voltage plug into the device's "**DC output port**", and connect the other end to the positive and negative terminals of the battery module.

Cell voltage acquisition wire connection

1) If the number of battery cells to be tested does not exceed 12: Use a 13-pin cell voltage acquisition wire to connect to the channel 1 interface of the device.

If the number of battery cells to be tested exceeds 12: Connect additional cells by using a 12-pin cell voltage acquisition wire to connect to channel 2 of the device (supports up to 24 cells).

2) According to the markings on the cell voltage acquisition wire, B1- connects to the negative terminal of the first cell (B1), B1+ connects to the positive terminal of the first cell (B1), B2+ connects to the positive terminal of the second cell (B2), and so on.



Power supply connection:

Use the AC power cord provided with the device to connect the device's power input port to a power outlet to supply power to the device. Set the maximum target current according to the size of the AC input load to prevent overcurrent.

5.3 Device operation

After connecting the device, turn on the power switch to activate it. Then set the equalization parameters, charging parameters, discharging parameters, and protection conditions. Close the DC switch before starting the test.

5.3.1 Main function menu

After powering on the device, it defaults to the charge and discharge test screen. The functional modules include **Balancing**, **Charging**, **Discharging**, **History records**, **and Settings**. Select the desired function and click to enter.



5.3.2 Balancing

1) On the main screen, click "Balancing" to enter the Balancing parameters settings screen.

Madula Nama	Pottery Tune
Module Name	Battery Type
testbal	LFP
Number of Cells	
12	
Balancing Parameters	
Target Voltage (V)	Target Current (A)
3.6	20.0
Alarm cell voltage difference(mV)	Cut-off Current (A)
······································	

	Parameters Description
Module name	Battery pack module naming.
Battery type	Select the type of battery module to test (different battery parameters vary).
Number of cells	Number of battery cells.
Target voltage	Target voltage value for battery module equalization.
Target current	Set the maximum current allowed during equalization.
Alarm cell voltage difference	The threshold for triggering an alarm due to cell voltage difference.
Cut-off current	The current threshold for terminating charge and discharge tests.

2) After setting the parameters, click "Confirm" to save the current settings and enter the equalization screen. Click "Start Working" on the equalization screen to start equalizing.

lodule Name	e: testbal	Battery T	ype: LFP	Working Tir	me: 00:00:00	Number	of Cells: 12
Balancin Volt	g Target age (V): 3.60	D	Current Gro Voltage	oup (V): 45.977	Curi	rent Working Current (A):	0.000
/ Voltage Differe	Alarm Cell 500 nce (mV):		Cell Maxim Voltage	um 3.886 (V):	С	ell Minimum Voltage (V):	3.873
Single Cell L	ist Single C	all Voltage Chart	Group Voltage	Chart			
Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)
1#	3.875	2#	3.873	3#	3.877	4#	3.874
5#	3.879	6#	3.875	7#	3.883	8#	3.886
9#	3.885	10#	3.886	11#	3.886	12#	3.885
13#	0.000	14#	0.000	15#	0.000	16#	0.000

3) During the equalization, you can monitor the equalization progress, including single cell list, single cell voltage chart, and group voltage graphs. Click "Stop Working" to end the current equalization process. After stopping, you can view the test data in "History records".

lodule Nam	e: testbal	Battery Ty	ype: NCM	Working Tir	me: 00:00:01	Number	of Cells: 12
Balancing Target Voltage (V): 3.600 Alarm Cell 500 Voltage Difference (mV):		0	Current Gr Voltage Cell Maxim Voltage	(V): 46.564	Curi	rent Working Current (A): ell Minimum Voltage (V):	0.000 3.873
Single Cell L	ist Single C	ell Voltage Chart	Group Voltage	: Chart			
Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V
1#	3.875	2#	3.873	3#	3.877	4#	3.874
	3.879	6#	3.875	7#	3.883	8#	3.886
5#	CONTRACTOR I	10#	3.886	11#	3.886	12#	3.885
5# 9#	3.885						

5.3.3 Charging

1) On the main screen, click "Charging" to enter the charging parameter settings screen.

Module Name	Battery Type	
testcharge	NCM	
Number of Cells		
12		
Charging Parameters		
Target Voltage (V)	Target Current (A)	
49.0	40.0	
Alarm cell voltage difference(mV)	Cut-off Current (A)	
950	1.0	

	Parameters Description
Module name	Battery pack module naming.
Battery type	Select the type of battery module to test (different battery parameters vary).
Number of cells	Number of battery cells.

Target voltage	Target voltage value for battery module charging.
Target current	Set the maximum current allowed during charging.
Alarm cell voltage difference	The threshold for triggering an alarm due to cell voltage difference.
Cut-off current	The current threshold for terminating charge and discharge tests.

2) After setting the parameters, click "**Confirm**" to save the current settings and enter the charging screen. Click "**Start Working**" on the charging screen to start charging.

Nouse Name	e: testbal	Battery Ty	ype: NCM	Working Tir	me: 00:00:10	Number	of Cells: 12
Chargin Volt	g Target age (V): 49.0	00	Current Gr Voltage	oup (V): 45.977	Curi	rent Working Current (A):	0.000
A oltage Differer	larm Cell 500 nce (mV):		Cell Maxim Voltage	(V): 3.887	С	ell Minimum Voltage (V):	3.873
Single Cell L	ist Single C	ell Voltage Chart	Group Voltage	e Chart			
Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)
1#	3.875	2#	3.873	3#	3.877	4#	3.873
22.11.02	3.879	6#	3.875	7#	3.883	8#	3.887
5#	0.005	10#	3.885	11#	3.886	12#	3.885
5# 9#	3.885						1

3) During the charging, you can monitor the charging progress, including individual cell voltage, individual cell voltage graphs, and group terminal voltage graphs. Click "Stop Working" to end the current charging process. After stopping, you can view the test data in "History records".

<			Char	ging		÷.	2025-03-05 07:28
Module Nam	e: testbal	Battery Ty	ype: NCM	Working Tir	me: 00:00:10	Number	of Cells: 12
Chargin Volt	g Target age (V): 49.0	00	Current Gr Voltage	oup (V): 45.977	Curr	ent Working Current (A):	0.000
A oltage Differer	larm Cell 500 tce (mV):		Cell Maxim Voltage	um 3.887 (V):	C	ell Minimum Voltage (V):	3.873
Single Cell L	ist Single Ca	all Voltage Chart	Group Voltage	Chart			
Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)
			0.070	2#			
1#	3.875	2#	3.873	3#	3.877	4#	3.873
1# 5#	3.875	6#	3.873	7#	3.877 3.883	4# 8#	3.873 3.887
1# 5# 9#	3.875 3.879 3.885	2# 6# 10#	3.873 3.875 3.885	7# 1 1 #	3.877 3.883 3.886	4# 8# 12#	3.873 3.887 3.885

5.3.4 Discharging

1) On the main screen, click "Discharging" to enter the discharging settings screen.

Module Name	Battery Type
testdis	NCM
Number of Cells	
12	
Discharging Parameters	
Discharging Parameters Target Voltage (V)	Target Current (A)
Discharging Parameters Target Voltage (V) 3.7	Target Current (A) 20.0
Discharging Parameters Target Voltage (V)	Target Current (A) 20.0 Cut-off Current (A)

Parameters Description				
Module name	Battery pack module naming.			
Battery type	Select the type of battery module to test (different battery parameters vary).			
Number of cells	Number of battery cells.			
Target voltage	Target voltage value for battery module discharging.			
Target current	Set the maximum current allowed during discharging.			
Alarm cell voltage difference	The threshold for triggering an alarm due to cell voltage difference.			
Cut-off current	The current threshold for terminating charge and discharge tests.			

2) After setting the parameters, click "**Confirm**" to save the current settings and enter the discharging screen. Click "**Start Working**" on discharging screen to start discharging.

Module Name	e: testbal	Battery T	ype: NCM	Working Tir	me: 00:00:09	Number	of Cells: 12
Discharging Target Voltage (V): 3.700		0	Current Group Voltage (V): 45.977 Cu		Curi	rrent Working Current (A): 0.000	
Alarm Cell 500 oltage Difference (mV):			Cell Maximum 3.887 Ce Voltage (V):		ell Minimum Voltage (V):	ell Minimum 3.873 Voltage (V):	
Single Cell L	ist Single C	ell Voltage Charl	Group Voltage	Chart			
Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V
1#	3.875	2#	3.873	3#	3.877	4#	3.873
5#	3.879	6#	3.875	7#	3.883	8#	3.887
9#	3.885	10#	3.885	11#	3.886	12#	3.885
13#	0.000	14#	0.000	15#	0.000	16#	0.000

3) During the discharging, you can monitor the discharging progress, including individual cell voltage, individual cell voltage graphs, and group terminal voltage graphs. Click "Start Working" to end the current discharging process. After stopping, you can view the test data in "History records".

<			Disch	arging		() (2025-03-05 07:28
Module Nam	e: testbal	Battery T	ype: NCM	Working Tir	me: 00:00:00	Number	of Cells: 12
Dischargin Volt	g Target age (V): 3.70	0	Current Gr Voltage	oup (V): 46.563	Curi	rent Working Current (A):	0.000
A oltage Differer	larm Cell 500 nce (mV):		Cell Maxim Voltage	(V): 3.887	С	Cell Minimum 3.873 Voltage (V):	
Single Cell L	ist Single C	ell Voltage Charl	Group Voltage	e Chart			
Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)	Single Cell	Voltage (V)
	-			-		6	
1#	3.875	2#	3.873	3#	3.877	4#	3.873
1#	3.875 3.879	2# 6#	3.873 3.875	3# 7#	3.877 3.883	4#	3.873 3.887
1# 5# 9#	3.875 3.879 3.885	2# 6# 10#	3.873 3.875 3.885	3# 7# 11#	3.877 3.883 3.886	4# 8# 12#	3.873 3.887 3.885

5.3.5 History records

1) Click "History records" on the main screen to access the history record page.

<			Data		Ţ 2025	03-05-07:29
Please enter key Q 2025-03-05 07:29:16_testdis 2025-03-05 07:27:57_testbal	Module Name: Number of Cells: Alarm Cell Voltage Difference (mV):	testdis 12 500	Working Mode: Target Voltage (V): Working Time:	Dischargin g 3.700 00:00:10	Battery Type: Target Current (A):	NCM 20.000
2025-03-05 07:27:35_testbal			Before work.		After work.	
2025-03-05	Group voltage.		45.954		45.954	
07:19:00_testdis	Maximum cell voltage.	-	3.887		3.887	
08:02:07_testcharge	Minimum cell voltage.		3.873		3.873	
2025-03-04 07:48:15_testcharge 2025-03-04			Cell deta	iils.		
07:47:38_testcharge		Vol	tage before work (V).		Voltage after wor	k (V).
2025-03-04 07:36:28_testcharge	B1		3.875		3.875	11. NO
2025-03-04		1			Tre	nd chart.

- 2) Select one or multiple history records by checking the box(es), then click "1111" to delete the selected records.
- 3) Select one or more history records by checking the box(es), then click ">> " to export the selected records via USB drive, email, or QR code sharing.
- 4) Click a record to view its details.

<		Data	
Please enter key Q 2025-03-05 07:29:16_testdis 2025-03-05 07:27:57_testbal	Module Name: Number of Cells: Alarm Cell Voltage Difference (mV):	testdis Working Mode: 12 Target Voltage (V): 500 Working Time:	Dischargin Battery Type: NCM g Target Current 20.000 3.700 (A): 00:00:10
2025-03-05 07:27:35_testbal		Before work.	After work.
2025-03-05	Group voltage.	45.954	45.954
07:19:00_testdis	Maximum cell voltage.	3.887	3.887
08:02:07_testcharge	Minimum cell	3.873	3.873
2025-03-04 07:48:15_testcharge 2025-03-04		Cell deta	ils.
07:47:38_testcharge	2	Voltage before work (V)	. Voltage after work (V).
2025-03-04 07:36:28_testcharge	B1	3.875	3.875
2025-03-04			Trend chart.

Click **"Trend Chart**" to view the equalization, charging, and discharging trend charts for group terminal voltage or individual cells.



5.3.6 Settings

On the main screen, click "Settings" to enter the settings menu. Users can switch between different settings options by clicking on the options on the left side of the screen. Settings options include WLAN, Language, Instructions, Device Upgrade, Date and Time, Development and Maintenance, Restore Factory Settings, and About.

<		Settings	🔶 2025-03-05 07:30 AM
î	WLAN	ିଙ୍କ 2.4-5F	~
	Language	987670000012	£
	Lunguage		a
	Instructions	奈 987610000456	a
0	Device Upgrade	🛜 ikuai_3417-guest	A
0	Date and	🔶 ChinaNet-KSRm	A
	Development	🔶 ChinaNet-EYYG	8
2	and Maintenance	⇒ YGW	8
8	Restore Factory Settings	ikuai_3417	ĥ
i	About		

WLAN: Used for setting up the device's wireless network connection.

Note: Before setting up the device's wireless network connection, please insert the USB wireless adapter into the device's USB port.

<	Settings	💼 2025-03-05 07:30 AM
🛜 WLAN		~
	987670000012	£
Language		8
	奈 987610000456	a
Device Upgrade	🛜 ikuai_3417-guest	a
Date and	🛜 ChinaNet-KSRm	8
	ChinaNet-EYYG	9
and Maintenance	⇒ YGW	â
Restore Factory Settings	ikuai_3417	۵
i About		

Language: Used for setting the system language.

<		Settings	🔶 2025-03-05 07:31 AM
(1)	WLAN	中文简体	۰
	Language	English	۲
	Instructions		
0	Device Upgrade		
0	Date and Time		
2	Development and Maintenance		
2	Restore Factory Settings		
i	About		

Instructions: Used for viewing the digital version of the manual.

<		Settings	💼 2025-03-05 07:31 AM
(?	WLAN	SmartSafe	ECB240 User Manual
	Language	Copyright © 2024 by SHENZHEN SMARTSAFE TECH CO.,LT part of this publication may be reproduced, stored in a retrieval	D. All rights reserved. No I system, or transmitted in
	Instructions	any form or by any means, electronic, mechanical, photocopyin without the prior written permission of SMARTSAFE.	ig, recording or otherwise,
0	Device Upgrade	Neither SMARTSAFE nor its affiliates shall be liable to the purch parties for damages, losses, costs, or expenses incurred by purch result of: Accident, misuse, or abuse of this unit, or unauthorized	chaser of this unit or third haser or third parties as a I modifications, repairs, or
0	Date and Time	alterations to this unit, or failure to strictly comply with SM/ maintenance instructions. SMARTSAFE shall not be liable for a	ARTSAFE operating and any damages or problems
20	Development and Maintenance	arising from the use of any options or any consumable pro designated as Original SMARTSAFE Products or SMARTSAF	oducts other than those E Approved Products by
S	Restore Factory Settings	All information, specifications and illustrations in this manual information available at the time of printing. SMARTSAFE res	are based on the latest serves the right to make
i	About	changes at any time without prior written or oral notice.	

Device Upgrade: Used for upgrading App and system. You can click "**Online Upgrade**" to update the device App to the new version via Wi-Fi, or click "**Local Upgrade**" to update the device App to the new version using a USB with the new App version.

Note: To perform the online upgrade, please connect to a Wi-Fi network first. To ensure the upgrade goes smoothly, please maintain a stable network connection during the process.

<		Settings	🌩 2025-03-05 07:31 AM
Ŷ	WLAN	Online Upgrade	
	Language	Local Upgrade	
-		System Upgrade	
	Instructions		
0	Device Upgrade		
0	Date and Time		
20	Development and Maintenance		
3	Restore Factory Settings		
i	About		

Date and Time: Used for setting the date, time, and time zone, etc.

<		Settings	💼 2025-03-05 07:31 AM
?	WLAN	24-hour format.	
	Language	Automatic setting.	
W	Lunguage	Date	2025-03-05 >
	Instructions	Time	07:31:22 AM >
0	Device Upgrade	Time zone.	GMT >
0	Date and Time		
20	Development and Maintenance		
2	Restore Factory Settings		
i	About		

Restore Factory Settings: This feature is used to reset the system. After clicking "**Restore Factory Settings**", a pop-up message will appear: "System reset will clear all set parameters, saved reports, and other data. Please confirm whether to reset the system!". Click "**Confirm**" to start the system reset.

<			
	WLAN	Restore Factory Settings	
	Language		
٠	Instructions	Tips System reset will clear all set parameters, saved reports, and all other data. Please confirm whether to reset the system!	
0	Device Upgrade		
0	Date and Time		
2	Development and Maintenance		
2	Restore Factory Settings		
E	About		

About: Used for viewing information such as device model, App version, firmware version, system version, and device serial number.

<		Settings	🤤 2025-03-05 07:31 AM	м
?	WLAN	SmartSafe		
۲	Language			
	Instructions			
0	Device Upgrade			
		Current APP version.	1.0.5 >	
0	Date and Time	Current firmware version.	1.0.12 >	
20	Development and Maintenance	Current system version	V1.1.3 >	
3	Restore Factory Settings	Device serial number.	806014900001 >	
		Device model.	ECB240 >	
E	About			

Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE SMARTSAFE PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

SMARTSAFE electronic product is warranted against defects in materials and workmanship for one year from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and SMARTSAFE shall not be liable for any consequential or incidental damages.

Final determination of defects shall be made by SMARTSAFE in accordance with procedures established by SMARTSAFE. No agent, employee, or representative of SMARTSAFE has any authority to bind SMARTSAFE to any affirmation, representation, or warranty concerning SMARTSAFE automotive meters, except as stated herein.

Disclaimer

The above warranty is in lieu of any other warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

Purchase Order

Replaceable and optional parts can be ordered directly from your SMARTSAFE authorized dealer. Your order should include the following information:

- Order quantity
- Part number
- Part name

Statement:

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