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1. Product Overview

EP401 is a battery module charge-discharge equipment developed by Smartsafe, mainly used for fast charging and discharging of offline battery pack modules for new energy vehicles, improving the maintenance efficiency of battery pack modules. This product is mainly connected directly to the positive and negative terminals of the battery pack module through the device output terminal, and quickly charged and discharged through high voltage and high current at the group terminal, so as to quickly reach the target set level of battery pack power.

1.1 Product Features

- Adopting the latest charging and charging test technology, it will not cause interference to the BMS management system, and is suitable for daily discharge and charging of battery packs.
- Wide voltage design, can be applied to the current battery test of different voltage levels.
- Voltage and temperature monitoring and protection during test can prevent over-charge and overdischarge.
- Multiple discharge auto-stop conditions make testing mode more intelligent and flexible, and avoid over-charge and over-discharge.
- Support multiple protection design and alarm settings of voltage, current, temperature abnormal to protect the battery and the equipment.
- Support functions such as overvoltage, undervoltage, overcurrent, output short circuit, anti-reverse protection and overheating protection.
- Charging completion condition: The charging procedure can be completed by setting the total charging time, constant voltage time, charging capacity, and charging current.
- 10-inch touch screen, easy to operate.
- Built in memory, supporting automatic storage of operation records.
- · Portable design: easy to carry and transport.

1.2 Main Function and Test Range

Mainly used for battery charge and discharge test, suitable for voltage levels of 2~400V.

1.3 System Components

The equipment is composed of main unit, 24CH sampling box and discharge cable. The main unit includes color display screen, data processing unit, data monitoring unit, auxiliary power unit, power consuming unit, and panel operation unit.

1.4 Working Conditions

NO CORROSIVE, NO EXPLOSIVE, NO ELECTRICAL BREAKDOWN AIR OR CONDUCTIVE DUST.

1.5 Environment & Energy Impact

The equipment can convert the tested battery energy into heat and use cooling system to blow the heat out of the unit, so during the discharge test, please pay more attention to heat dissipation and ventilation.

1.6 Storage Conditions

Placed in a dry storage room, temperature: -20° ~ 70° , humidity: $10\% \sim 93\%$.

2. Precautions for Safe Use

2.1 General Rule

Please follow the user manual to use this equipment.

2.2 Common Incorrect Operation

- 1) Tools for connecting is not well insulated.
- 2) Operating without following the user manual.

2.3 Damage Probably Caused By Incorrect Operation

1) Short circuit accident: Tools is not well insulated, or battery pack positive and negative electrodes are too close.

2) Failure to follow the correct operation method will cause the equipment not working properly.

2.4 Emergency Treatment In Exceptional Cases

Disconnect the equipment power supply and test cables.

2.5 Precautions In Exceptional Circumstances

If the operator uses tools without well insulation or improper operate to cause short circuit, please separate the cables immediately.

2.6 Other Safety Alerts

Strict compliance with safety operating norms and correct operating procedure.

3. Technical Features	
-----------------------	--

Parameter	Description
Model	EP401
Power input	AC 90 ~ 264V, 50/60Hz
Display	10-inch TFT LCD screen with resolution 1280*800
Data communication	RJ45*1, USB*2
Data dump	Internal storage of device or data transfer to USB flash drive
Data storage	32G
Module data acquisition communication	Harness sampling
	≤±(0.5%FS+0.3V), resolution: 0.001V
Group voltage accuracy	Note: The voltage displayed during the testing process may deviate from the actual voltage. Please refer to the static voltage when the test is stopped.

	≤±(0.1%FS + 5mV), resolution: 0.001V
Cell voltage accuracy	Note: The voltage displayed during the testing process may deviate from the actual voltage. Please refer to the static voltage when the test is stopped.
Current measurement accuracy	$\leq \pm (1\%FS + 0.2A)$, resolution: 0.1A
Charging voltage range	DC 2V ~ 400V
Discharge voltage range	DC 2V ~ 400V
Charge current range	0A ~ 100A, maximum power 4.4kw
Discharge current range	0A ~ 100A, maximum power 7.2kw
Charge control	Constant current charging + constant voltage charging
Discharge mode	Constant current discharge
	Overcharge and over discharge protection Over voltage, over current, over temperature protection
Protection mechanism	Battery short connection, reverse connection protection
	Fan abnormal protection
Shutdown actuator	DC air circuit breaker + release
Alarm prompt	Screen prompt + buzzer
	Working Environment
Cooling	Forced air cooling
Working Temperature	-5°C ~ 45°C
Working Humidity	5% ~ 93%
Dimension	548*339*482 mm

4. Operating Instructions

4.1 Device interface and buttons



No.	Name	Description
1	Communication interface	For communication and other expandable functions
2	DC circuit breaker	Turn on/off DC output. When turned on: The device can output according to the set parameters; When turned off: Output port is closed, unable to output.
3	DC output port - negative pole	Connect to the negative terminal of the battery pack module.
4	DC output port - positive pole	Connect to the positive terminal of the battery pack module.
5	Power input port	Connect to the positive terminal of the battery pack module
6	AC circuit breaker	Turn on/off AC input.
7	USB port	Export data
8	Light strip	Green constant light indicates that the device is in standby mode; Blue constant light indicates work in progress; Yellow constant light indicates a non-stop warning; Red flashing indicates a fault/shutdown warning.
9	Emergency stop switch	Used to cut off the power supply of the device in an emergency and stop the device immediately. After pressing this emergency stop switch button, the emergency stop switch must be turned to the right to reset it before the AC circuit breaker (6) can be closed again.

4.2 Connection method



DC test cable connection

Insert the black DC test cable into the **DC output port - negative pole** interface (Black) of the device, and connect the other end to the negative pole of the battery module; insert the red DC test cable into the **DC output port - positive pole** interface (Red) of the device, and connect the other end to the positive pole of the battery module.

Voltage sampling - Module sampling connection

- Use communication network cable to connect the communication interface of the device and the IN interface of the 24CH sampling box.
- (2) If the number of test cells does not exceed 12: use a 13P voltage acquisition cable (connected to the 13P acquisition interface of the voltage and temperature acquisition box);
 If the number of test cells exceeds 12: an additional 12P voltage acquisition cable needs to be used (connected to the 12P acquisition interface of the voltage and temperature acquisition box);
 If the number of test cells exceeds 24: need to add more voltage and temperature acquisition boxes (up to 3 voltage and temperature acquisition boxes can be connected).
- (3) According to the wire label on the cell voltage acquisition wire, B1 is connected to the negative electrode of No. 1 single cell (B1), B1 + is connected to the positive electrode of No. 1 single cell (B1), B2 + is connected to the positive electrode of No. 2 single cell (B2), and connected in sequence.



Temperature sampling - Module sampling connection

Connect one end of the temperature acquisition wire (optional) to the temperature acquisition interface of

the 24CH sampling box, and connect the other end (probes or clips) to the battery cells.

Working power supply connection

Use the AC power cord (Include UK/US/EU/AU, choose the appropriate plug according to the region of use) equipped with the device to connect the device power interface and power socket to power the device. At this time, it is recommended to only use it for operating the discharge function.

Connect the single-phase three wire AC input power cord equipped with the device to the power interface, and connect the other end of the power cord to the distribution box to supply power to the device. At this time, the device can operate charging and discharging functions. Please set the charge current limit according to the size of the connected AC input load (see parameter table for details) to prevent overcurrent.

4.3 Operation

After the device is connected, close the AC circuit breaker to turn on the device, then set the charging and discharging parameters and protection conditions. Before starting the test, close the DC circuit breaker.

4.3.1 Main Menu

After the device is turned on, it enters the charge and discharge detection interface by default. Users can click the function module icon on the left side of the screen to switch to different function module interfaces. The function modules on the left include charge and discharge detection, history, software upgrade and system settings.

Note: In the charge and discharge detection interface, users can click "Instructions" in the lower left corner of the screen to view the device operation instructions.

SmartSafe	Integrated battery pack	module ch	arging and dis	scharging ma	chine	
Charge and	Pack/module no:EP401 Battery type:Ternary lithium	Target	t voltage:20.800V o voltage:20.820V		Initial electric: 1).0A
Historical records	Battery cell differential pr 9mV	PARAMETER OV	COLLEC	TION BOX 1 Battery cell d	ifferential temper 0.4℃	ature
Upgrade	Average voltage 3.468V	s	tanding By	Avera	ge temperature 24.6°C	
System settings	Max voltage 3.472V	Min voltage 3.463V	м	lax temperature 24.7°C	Min Parameter settings	temperature 24.3°C Start test

4.3.2 Charge and discharge

(1) In the charge and discharge interface, click **Parameter settings** to preset the charge and discharge parameters.

SmartSafe

Ċ,	Pack/module no		Battery type	
	EP401		Ternary lithium	•
harge and discharge	Nominal capacity		Battery cell count	
	5.0		6	
- 0	Target voltage(current group voltage:20.816V	0	Number of detected battery cells: 6: Initial electric	
Historical records	20.8	V.	10.0	A
	Veluerange: 18.0V-25.2V Battery cell voltage difference		Value range: 0.2~100A Cut off electric	
	200	Wat	0.1	
Upgrade	Value range: 1-99999mV Battery cell temperature difference		Normal mode prohibits betting	
	8.0	10		
	Volue range: 1-5010			

Parameter description				
Pack/module no.	Enter the battery pack number to name it.			
Nominal capacity	The nominal capacity of the battery pack module, which can be identified from the label according to the actual input.			
Target voltage	The target voltage value for charging and discharging the battery module. The device will automatically judge whether to charge or discharge according to the current voltage of the battery pack and the target voltage.			
Battery cell voltage difference	The voltage deviation between the highest and lowest cell voltages.			
Battery cell temperature difference	Excessive temperature difference protection threshold.			
Battery type	Select the battery type according to the battery pack to be tested.			
Battery cell count	The number of battery cells contained in the connected battery pack.			
Initial electric	The initial current value of charging and discharging.			
Cut off electric	The current threshold for terminating the charging and discharging.			

The parameter setting interface defaults to normal mode. If you need to enter expert mode to set more parameter items, you can click **System settings** function module on the left side of the screen, and then click **Expert mode** on the system settings interface to enter the parameter settings interface.

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÷.	Battery cell voltage difference	Cut off electric				
	200	mV	0.3	A		
harge and	Yolae range: 1-99999mV Battery cell temperature difference		Valuerange: 0.1-0.3A			
discharge			Battery warning temperature			
	8.0	<i>т</i> с	45.0	0		
Ξ.	Value range: 1-50°C		Valoaraage: 0-1000 Battery cell max voltage			
C	Charging and discharging time					
Historical	0.1	H	3.65	V		
recorus	Value range: 0-60H		Valua range: 3.000~4.200V			
	Battery cell min voltage		Data storage interval			
	3.0		10	S		
	Value range1 31000-4 200V		Value mage: 1-605			
Upgrade	Temperature sensor		Voltage change rate(Current voltage change rate:1000mv)			
	Standard Resistance: 100000 B Value: 3950	-	1000	mV		
			Valuerunge: 300-6000mV			

Parameter description				
Battery warning temperature	The system will automatically alarm when the set temperature is reached.			
Charging and discharging time	Set the charging and discharging duration, and automatically stop charging and discharging after reaching the set time.			
Battery cell max voltage	The highest voltage threshold of the battery cell. When the battery cell voltage reaches the set voltage value, charging will automatically stop.			
Battery cell min voltage	The lowest voltage threshold of the battery cell. When the battery cell voltage reaches the set voltage value, discharging will automatically stop.			
Data storage interval	The interval time for automatic data storage.			
Temperature sensor	Select a temperature sensor or temperature measuring cable to .			

(2) After setting the parameters, click **Confirm** to save the current settings and return to the charging and discharging interface. Click **Start test** in the charging and discharging interface to start charging and discharging.

SmartSafe	Integrated battery pack	c module charging	y and discharg	jing machine	奈! 14:55 2024-12-05
Charge and discharge	Pack/module no: EP401 Battery type: Ternary lithium	Target voltage Group voltage	22.000V	Initial electr	ic:10.0A ic:3.2A
Historical records	Battery cell differential p 9mV		Ba	1 ttery cell differential terr 0.4°C	sperature
Upgrade	Average voltage 3.468V	Char 00:0	ging 00:16	Average temperatu 24.6°C	re
System settings	Max voltage 3.472V	Min voltage 3.463V	Max temp 24.7	erature °C Parameter settings	Min temperature 24.3°C Stop

(3) During the charging and discharging process, you can check the test progress and wait for the test results. Click **Stop** to end the current charging and discharging process.

SmartSafe	Integrated battery pack	module c	harging	and disch	arging m	achine	奈! 15:30 2024-12-05
Charge and discharge	Pack/module no: EP401 Battery type: Ternary lithium	Tarç Gro	get voltage: up voltage:	20.680V 20.787V		Initial electric: 0, Test electric: 0,	5A 0A
Historical records	Battery cell differential pr 9mV	ressure	OVERVIEW	COLLECTION	Box 1 Battery cell	differential temper 0.4℃	ature
Upgrade	Average voltage 3.464V		Comj 00:00	blete 0:00	Aven	age temperature 24.8°C	
System settings	Max voltage 3.469V	Min voltage 3.460V		Max t	emperature	Min Parameter settings	temperature 24.5°C Start test

(4) If multiple 24CH sampling boxes are connected, you can click the corresponding sampling box to view the charging and discharging results of the battery module connected to it.

SmartSafe	Integrate	d battery pack m	odule charging	g and discha	rging machine	奈 15:30 2024-12-05		
Charge and discharge	Pack/module no: EP401 Battery type: Ternary lithium		Target voltage: 45.6V Group voltage: 45.6V		Initial e Test e	Initial electric: 60A Test electric: 60A		
		PARAMETER OVERVIEW	COLLECTION BOX	1 COLLECTION	BOX 2 COLLECTION	BOX 3		
- 0	Cell voltage. (\	1)						
Historical	^{25#} 3.3	^{26#} 3.1	^{27#} 3.3	^{28#} 3.4	^{29#} 3.3	^{30#} 3.4		
records	^{31#} 3.3	^{32#} 3.4	^{33#} 3.6	^{34#} 3.4	^{35#} 3.3	^{36#} 3.4		
	^{37#} 3.3	^{38#} 3.4	^{39#} 3.3	^{40#} 3.4	^{41#} 3.7	^{42#} 3.4		
	^{43#} 3.3	^{44#} 3.4	^{45#} 3.3	^{46#} 3.4	^{47#} 3.3	^{48#} 3.4		
Upgrade	Temperature.	°C)						
\$	^{1#} 24.7	2# 24.9	3# 25.0	4# 24.6				
System settings					Paramosettin	eter gs Start test		

4.3.3 Historical records

(1) Click Historical records in the left function menu to enter the historical records interface.

Charge and	Ternary EP401 Discharge	Ternary EP401	Temary EP401 Abnormal shutdown 2024-12-05 10:50:06	
discharge EC	Ternary EP401	Ternary EP401	Temary EP401 EP401 EP401 E010 E010 E010 E010 E010 E010 E010 E	
Historical records	Temary EP401 C Abnormal shutdown 2024-12-04 15:52:13	Ternary EP401 Abnormal shutdown	Ternary EP401 EP401 C	
Upgrade	Ternary EP401	Ternary EP401	Temary EP401	

- (2) Select a single or multiple historical records, and click **Delete** to remove the selected records.
- (3) Select a single or multiple historical records, insert the USB flash drive into the USB port on the panel, and then click **Export** to transfer the selected historical records to the USB flash drive.
- (4) Click Filter to set conditions to filter out records that meet the conditions.
- (5) Click on a single record to view its details.

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Ā	Stop reason: Charge arrival volt	age Pack/module.no:EP401 Battery cell.count:6	Battery type: Ternary lithium	
Charge and discharge	Initial electric: 10.0A	ge difference. 200.0mV	ine difference: 8.0°C	
		Before testing	After testing	
C	Group voltage(V)	20.887	21.000	
Historical	Battery cell max voltage(V)	3.484	3.503	
records	Battery cell min voltage(V)	3.474	3.49	
	Battery cell differential pressure(mV)	9	13	
	Battery cell max temperature°C	24.5	24.3	
	Battery cell min temperature°C	24.0	23.9	
Upgrade	Battery cell differential temperature"C	0.5 0.5		
-	Charge			

Click Share to share the historical record.

Click Trend Chart to view the charging and discharging trend chart of the group or single cell.



4.3.4 Upgrade

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Click **Upgrade** in the function menu on the left to enter the software upgrade interface. Select options such as **APP Upgrade**, **Firmware Upgrade**, **Collection box upgrade** or **System Upgrade** to view the current version and the latest version, and click **Upgrade Now** to upgrade the APP, firmware, collection box or system to the latest version.

Note: To perform software upgrade functions, it is necessary to connect to a wireless network firstly; To ensure the normal upgrade, please ensure network stability during the upgrade process.

SmartSafe	Integrated battery pack module charging	and discharging machine 🛛 🛜 🗌 14:45 2024-12:05
Charge and discharge	1	
Historical records	The current version is already the latest version 1.0.11	The current version is already the latest version 3.2.7
	1	
Upgrade	Collection box upgrade The current version is already the latest version	System upgrade Click to open "System Upgrade" to view
System settings	1.3.4	6.63
SmartSafe	Integrated battery pack module charging	and discharging machine 🛛 🏾 🛜 👘 14:45 2024-12:05
Ā	Firmware	upgrade
Charge and discharge	Current version	1,0.00
B	The latest version	1.0.00
Historical records	Upgrade log No new version description	
Upgrade		
\$		
System		BACK UPGRADE NOW

4.3.5 System Setting

Click **System Settings** in the function menu on the left to enter the system settings interface. System settings include **Wi-Fi**, **Language**, **Date and time**, **Expert mode**, **Device self-test**, **Development mode**, **Equipment seft-test**, **Instructions** and **About**, etc.

SmartSafe	Integrated battery pack module charging and discharging machine	奈 14:43 2024-12-05
Ā	😒 WI-FI	F-2.4-5F >
Charge and	(Language	English >
discharge	O Date and Time	>
=_	Expert mode	
Historical records	Device self-test	>
	20 Developer Mode	>
	Instructions	>
Upgrade	i About	>
System settings		

Wi-Fi: Used to set up the device's wireless network connection.

SmartSafe	Integrated battery pack module charging and discharging machine	(îr	202	14:43 24-12-05
ā	Wi-Fi			
7-	Connected			
Charge and discharge	F-2.4-5F		۵	((i-
(Common of the local of the loc	Available			
=	F-2.4-5F	~	0	(î:
Historical	SUP		8	(?
records	ikuai_3417-guest		6	÷
	ikuai_3417		8	(it-
Upgrade				
*				
System settings			bac	k

Language: Used to set the system language.

SmartSafe	Integrated battery pack module charging and discharging machine	奈 14:43 2024-12-05
Ţ.	Language	
Charge and	简体中文	
uischarge	繁体中文	
- 0	English	~
Historical records		
Upgrade		
\$		
System settings		back

Date and time: Used to set date, time and time zone, etc.

SmartSafe	Integrated battery pack module charging and discharging machine	奈 <mark>14:43</mark> 2024-12-05
Ā	Date and Time	
Charge and discharge	24-hour clock system	
	Automatic setting	
-0-	Date	2024-12-05 >
Historical records	Time	14:43 >
	Time zone	Asia/Shanghai >
Upgrade		
\$		
System settings		back

Expert mode: Used to switch the parameter setting mode of charging and discharging to Expert mode.

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Device seft-test: Support automatic self-check of device.



Developer Mode: This function is only for development and maintenance, a password is required.

SmartSafe	Integrated batter	y pack module chargii	ng and discharging machine	奈 14:43 2024-12:05
Ā	💿 Wi-Fi			F-2.4-5F >
Charge and	👜 Language			English >
discharge	Date and Time			>
= _o	Expert mode	Pas	sword	
Historical records	Device self-test	Please input a password		>
	2 Developer Mode	Cancel	Confirm	>
	Instructions			>
Upgrade	About			>
\$				
System settings				

14:44 2024-12-0 SmartSafe Integrated battery pack module charging and discharging machine Instructions Charge and discharge SmartSafe EP401 User Manual Copyright Information Copyright @ 2024 by SHENZHEN SMARTSAFE TECH CO., LTD. All rights reserved. No part of this C publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of Historical SMARTSAFE. records Neither SMARTSAFE nor its affiliates shall be liable to the purchaser of this unit or third parties for damages, losses, costs, or expenses incurred by purchaser or third parties as a result of: Accident, misuse, or abuse of this unit, or unauthorized modifications, repairs, or alterations to this unit, or failure to strictly comply with SMARTSAFE operating and maintenance instructions. SMARTSAFE shall not be liable for any damages or problems arising from the use of any options or any consumable products other than those designated as Original SMARTSAFE Products or SMARTSAFE Approved Products by Upgrade SMARTSAFE All information, specifications and illustrations in this manual are based on the latest information 1/20 System back settings

Instructions: This function is used to view the electronic version of the user manual.

About: Used to view information such as device model, APP version, firmware version, collection box version, system version and device serial number.

SmartSafe	Integrated battery pack module charging and discharging machine	奈 14:45 2024-12-05
Ā	About	
Charge and	Device model	EP401_V2
uischarge	App version	V1.0.11
- 0	Firmware version	V3.2.7
Historical records	Collection box version	V1.3.4
	System version	V1.1.1
Upgrade	Device sn	806013000011
*		
System settings		back

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:

SMARTSAFE reserves the rights to make any change to product designs and specifications without notice. The actual object may differ a little from the descriptions in the manual in physical appearance, color and configuration. We have tried our best to make the descriptions and illustrations in the manual as accurate as possible, and defects are inevitable, if you have any question, please contact local dealer or after-sale service center of SMARTSAFE, SMARTSAFE does not bear any responsibility arising from misunderstandings.