SDCBUS

Excellence Innovation Mission Responsibility

珠海九源电力电子科技有限公司
Zhu hai Jiuyuan Power Electronics Technology Co., LTD

地址：广东省珠海市高新区唐家湾镇华冠路45号金鸿工业园
电话：0756-3616108
传真：0756-3616109
网址：www.sdcbus. com
邮箱：sdcbus@sdcbus.com

SDCBULS

Service Creates Value

Brands Bring Life

SOLUTION AND SYSTEM SUPPLIER OF LITHIUM BATTERY ELECTRICAL PERFORMANCE TESTING

锂电池电性能检测解决方案及系统供应商

珠海九源电力电子科技有限公司
Zhu hai Jiuyuan Power Electronics Technology Co., LTD

COMPANY INTRODUCTION
公司简介

Zhuhai Jiuyuan Power Electronics Technology Co., Ltd., established in March 2013, is headquartered in Zhuhai Hi-Tech Zone—an innovation hub of the Guangdong-Hong Kong-Macao Greater Bay Area. As a national high-tech enterprise, the company specializes in the R&D of industrial-grade converter technology, high-end equipment manufacturing, and smart energy solutions.

Guided by the core philosophy of "Innovation-Driven, Quality-First", Jiuyuan Power is committed to providing global customers with efficient, reliable, and intelligent power conversion and energy management products.

Capabilities and Market Position

1 Technological Breakthrough

Breaking international monopolies, we have achieved industry-leading levels in high-end power electronic converter control technology, with multiple innovations filling domestic technological gaps.

2 Technological Breakthrough

Our power converter series offers unit capacities ranging from 1kW to 1MW, with modular expansion capability reaching 10MW scale, fulfilling comprehensive energy conversion needs across all application scenarios.

3 Core Competency

Through deep convergence of key technologies - from lithium battery performance testing to microgrid converter systems and rail transit power solutions - we have built an end-to-end technological matrix for the new energy industrial chain.

4 R&D Team

Supported by our elite technical team, we've accumulated deep technological reserves and created competitive industry moats, with numerous national patent authorizations, leading the sector's upgrade.

Core Business and Product Portfolio

1. New Energy Testing Equipment Series

- Lithium Battery Performance Testing System:Delivers full lifecycle solutions, enabling precise testing from R&D validation to end-of-life recycling.
- Bidirectional Programmable AC/DC Power Supply:Enables energy consumption optimization and high-efficiency power feedback, compatible with integrated solar-storage-charging systems, microgrids, and other applications.
- Grid Simulation Power Supply:Advances smart grid integration technologies, ensuring efficient interaction between PV/storage systems and the power grid.

2. Smart Power & Energy Management Solutions

- Industrial Automation Power Supply:Delivers high-precision, ultra-reliable power solutions for rail transit, motor control, and related applications.
- Power Quality Management:Grid purification power supplies and dynamic VAR compensation devices (SVG) to mitigate harmonic distortion and voltage fluctuations.
- Industrial Automation Power Supply:Delivers high-precision, ultra-reliable power solutions for rail transit, motor control, and related applications.

Service Model and Customer Value

Customer Philosophy

- With 'Responsibility, Innovation, Excellence, and Win-Win Collaboration' as our core values, we are committed to becoming the most reliable value partner for new energy enterprises, supporting customers in cost reduction, efficiency improvement, and sustainable development.

Lifecycle Services

- Pre-sales: Customized technical solution design to precisely match customer requirements.
- In-process: Full-process quality traceability to ensure zero-defect product delivery.
- After-sales: 24/7 rapid response with nationwide on-site technical support and maintenance.

Custom-Certified Services

- We understand the diverse certification requirements across different markets. All products are developed in compliance with international safety standards and can be certified to CE/UL upon request (subject to certification processes and fees). Please contact our compliance team for customized solutions.

Vision and Mission

With the vision of 'Becoming a Leading Global Supplier of New Energy Testing Equipment,' Juyuan remains steadfast in advancing new energy technologies to drive the energy transition and achieve carbon neutrality goals. Moving forward, we will collaborate with global partners through safer, more energy-efficient benchmark products to jointly chart a new blueprint for green energy!

CORPORATE CULTURE
企业文化

Our Objectives

We are committed to independent R&D and technological innovation, using technology to create a smart life.

Our Credo

Expertise builds quality, integrity builds the future; innovation builds dreams, responsibility builds trust.

Our Mission

Integrity is our foundation; Innovation is our path to prosperity. Excellence is our relentless pursuit; Service is our lifelong commitment.

Service Policy

Adhering to the service tenet of timeliness, professionalism and efficiency, we ensure customers' peace of mind, confidence and convenience.

DEVELOPENT HISTORY
发展历程

2008
» The first batch of five 750V/100A lithium battery performance testing units has been commissioned in Zhuhai.

2010
» The EV charging equipment developed by our team was awarded the *Zhuhai Science and Technology Third-Class Prize.*

2014
» Comprehensive series of lithium battery module & pack testing equipment, with a voltage range of 5V-2000V and current range of ±1000A per channel.

2017
» The company has been certified under the *GB/T 19001-2016 / ISO 9001:2015* Quality Management System standard.

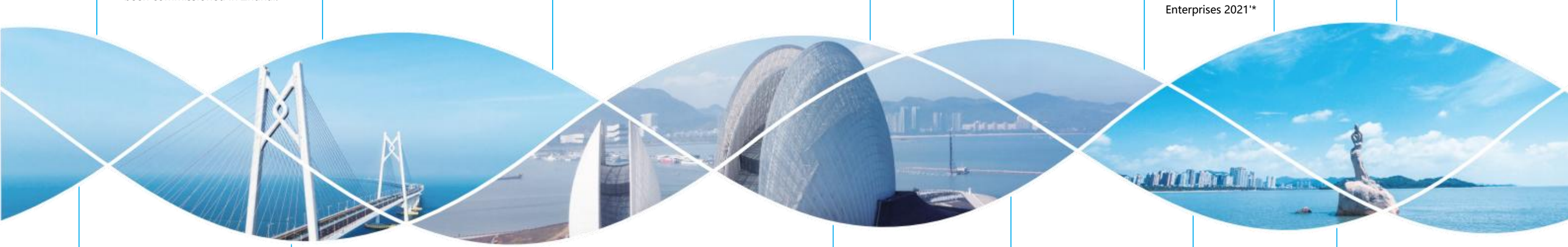
2019
» The company was *re-certified as a National High-Tech Enterprise* in December.

2021
» In August, the company became a member unit of the Zhuhai DC Transmission and Power Electronics Industry Promotion Association.

» In December, the company was awarded the title of *'Zhuhai Top 100 High-Tech Growth Enterprises 2021'*

2023
» In December, the company was honored with the title of 'Guangdong Specialized, Sophisticated, Distinctive and Innovative SME'.

2024
» The company has officially launched two new product lines: the Bidirectional Programmable AC Power Supply and the Grid Simulation System.



2004
» The technical team collaborated with the Power Electronics Research Institute of Sun Yat-sen University to develop bidirectional converter technology products.

2009
» Test results confirm that the lithium battery performance testing equipment meets or exceeds all key specifications of comparable imported systems.

2013
» In March, Zhuhai Juyuan Power Electronics Technology Co., Ltd. was established, specializing in the R&D of lithium battery electrical performance testing systems.

2016
» In January, the company's series of testing equipment was certified as *Guangdong Provincial High-Tech Products*, and in December, Juyuan was accredited as a *National High-Tech Enterprise*.

2018
» In February, the company was certified as a *Technology-based SME*, and in June, it was recognized as a Guangdong Contract-abiding and Credit-worthy Enterprise.

» In December, the company obtained certification for its Intellectual Property Management System, compliant with the GB/T 29490-2013 national standard.

2020
» The full series of lightweight (4th Gen) battery testing systems has entered mass production.

2022
» In June, the company successfully renewed its *GB/T 19001-2016 / ISO 9001:2015* Quality Management System certification.

» In December, the company was accredited as a *National High-Tech Enterprise* for the third consecutive time.

QUALIFICATION AND HONOR
荣誉资质

SDCBUS SERIES PRODUCTS

SDCBUS系列产品

The SDCBUS Series Lithium Battery Pack Performance Testing Equipment is specifically designed for lithium battery-related products. Adopting internationally advanced DC bus power processing technology, it enables high-efficiency, low-harmonic, high-power-factor bidirectional AC-DC energy conversion. The system's power section utilizes a common DC bus architecture, allowing multi-channel energy exchange within the system for superior energy-saving efficiency. By performing charge/discharge cycles on battery packs while real-time monitoring parameter variations during the process, it provides scientific basis for battery performance evaluation. Widely applied across lithium battery manufacturers, electric vehicle companies, charging stations, energy storage plants, battery testing institutions, and battery research organizations.

▸ System Features

01 All-Digital Controlled Regenerative (Converter Control System)

02 Multi-channel common DC bus design, supporting inter-channel DC cycling and parallel DC channel operation, with maximum system efficiency up to 98.5%

03 25-year hardware design lifespan (Full product line utilizes Infineon IGBTs and film capacitors)

04 Comprehensive AC/DC access protection functions

05 Rapid system response with ≤5ms response time

06 Adaptive AC connection technology (phase sequence independent)

07 Advanced software phase-locked technology with active rectification and inverter total current harmonic distortion (THD) ≤3%

08 Power factor ≥0.99

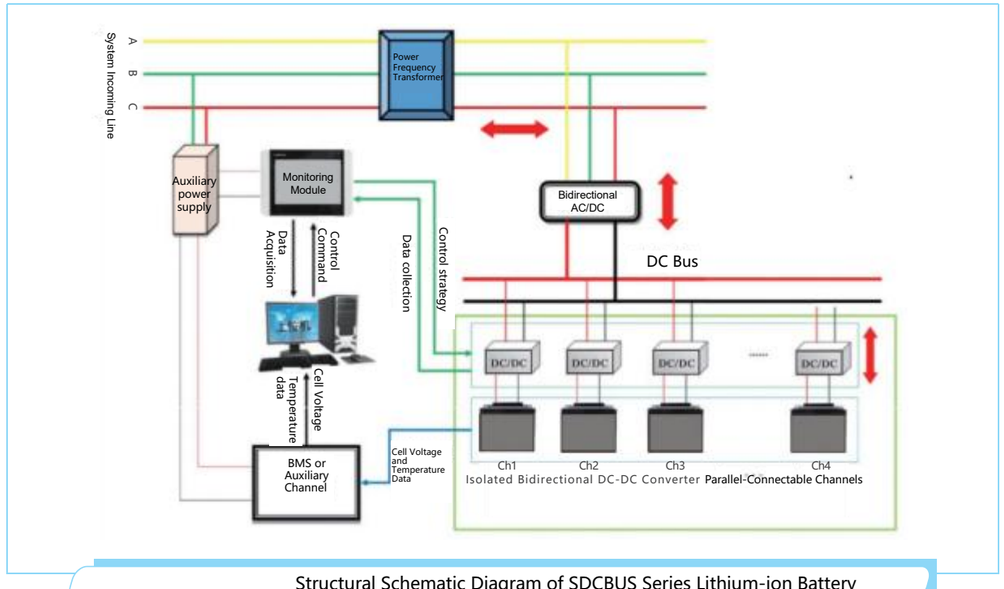
09 High-precision DC current and voltage control (DC channel current control adopts 18-bit ADC chips, with current control accuracy better than 0.1% across the entire product line)

10 Independent DC channel control mode, supporting 'plug-and-play' and 'fault auto-disconnect' functions

11 User-friendly graphical test sequence editing mode

12 Compatible with various battery management systems (BMS and protection boards)

▸ System Architecture



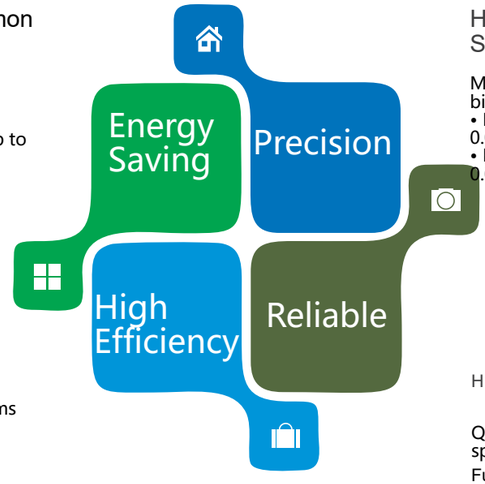
Structural Schematic Diagram of SDCBUS Series Lithium-ion Battery Electrical Performance Testing System

▸ Core Competitiveness of the Product — -

Product Value Proposition

Regenerative Common DC Bus Type

The patented topology demonstrates superior performance, achieving up to 98.5% overall efficiency



High-precision Across Full Scale

MIL-SPEC sampling resistors with ±18-bit isolated ADCs ensure:
• Full-scale voltage accuracy better than 0.05% across 5-1000V range
• Full-scale current accuracy better than 0.05% up to ±1000A

Rapid Dynamic Response

Current rating: 500A
• Rise time (10%-90%) ≤5ms
• Transition time (-90% to +90%) ≤10ms

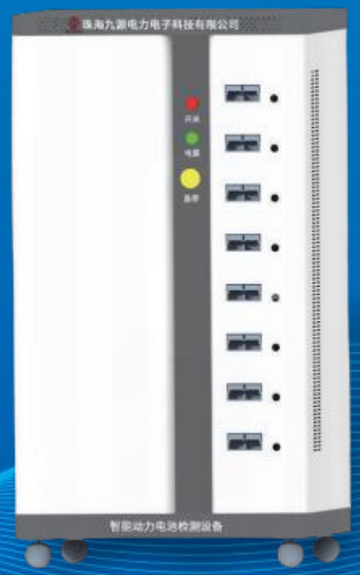
High Reliability & Long Service Life

Quarter-century durability component specification
Fully-imported core assemblies across all product lines
Intelligent Power Headroom Management
Multi-layer Fail-safe Control Strategy

珠海九源电力电子科技有限公司
Zhuhai Jiuyuan Power Electronics Technology Co.,LTD

TYPICAL PRODUCT INTRODUCTION
典型产品介绍

5V300A-8Channel



Application Fields

The main application is for electrical performance testing of power lithium batteries for vehicles, energy storage lithium batteries, and large-capacity secondary batteries.

System features

- High efficiency, low energy consumption, with power feedback to the grid
- The system adopts a common DC bus design, enabling automatic circulation of charging/discharging energy between different channels on the DC side
- Every channel features an independent CAN communication port, enabling real-time monitoring of BMS data such as cell voltage, temperature, state of charge (SOC), etc
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.
- The system features DBC file import capability with real-time monitoring of user-defined parameters (including cell voltage, state of charge, etc.) and automated storage of all DBC variable data.
- Modular design ensures clear structure and convenient maintenance.
- Implements multi-segment multi-point calibration architecture to ensure high-accuracy sampling across the full-scale range.
- Seamless CC-CV transition without voltage/current spikes
- Advanced driving condition simulation capability with road load profile and standardized duty cycle (e.g., WLTP/NEDC) file import functionality.

Key Specifications

AC-DC AC-side technical parameters	
Rated voltage (V)	380±10%
Frequency (Hz)	50±2(Other frequencies require customization)
Power factor	≥0.99
Total Harmonic Distortion(THD)	< 5%(At 50% load or above)
AC input	Three-phase five-wire system (grounding resistance ≤5Ω)
AC protection	Undervoltage,Overvoltage,Overcurrent,Phase loss,Overload,Frequency abnormality,Overtemperature,Communication timeout,Anti-islanding protection

DC-DC DC-side technical parameters	
Equipment model	5V300A-8Channel
Number of DC output channels per cabinet	8
Rated power per channel	1.5
Total DC output channel power(kW))	12
Charge/discharge voltage range (V)	1-5
Single-channel current range (A)	±300
Current range of paralleled DC channels (A)	±600 (2 channels in parallel)
Energy feedback efficiency	≥ 80%(Full load)
Output voltage sampling resolution (mV)	1
Single-channel voltage accuracy	±0.05%F.S
Single-channel voltage accuracy	±0.05%F.S
Output current sampling resolution (mA)	1
Continuous sampling rate (ms)	≤10
Power resolution (W)	0.1

珠海九源电力电子科技有限公司
Zhuhai Jiuyuan Power Electronics Technology Co.,LTD

TYPICAL PRODUCT INTRODUCTION
典型产品介绍

60V20A-48Channel

100V100A-8Channel

Application Fields

Primarily designed for functional characteristic testing of battery modules in low-speed vehicles, e-bikes, UAVs, and power tools.

System features

- High efficiency, low energy consumption, with power feedback to the grid
- The system adopts a common DC bus design, enabling automatic circulation of charging/discharging energy between different channels on the DC side
- Every channel features an independent CAN communication port, enabling real-time monitoring of BMS data such as cell voltage, temperature, state of charge (SOC), etc.
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.
- The system features DBC file import capability with real-time monitoring of user-defined parameters (including cell voltage, state of charge, etc.) and automated storage of all DBC variable data.
- Modular design ensures clear structure and convenient maintenance.
- Implements multi-segment multi-point calibration architecture to ensure high-accuracy sampling across the full-scale range.
- Seamless CC-CV transition without voltage/current spikes
- Advanced driving condition simulation capability with road load profile and standardized duty cycle (e.g., WLTP/NEDC) file import functionality.

Key Specifications

AC-DC AC-side technical parameters	
Rated voltage (V)	380±10%
Rated voltage (V)	50±2（Other frequencies require customization）
Power facto	≥0.99
Total Harmonic Distortion（THD）	<5%（At 50% load or above）
AC input	Three-phase five-wire system (grounding resistance ≤5Ω)
AC protection	Undervoltage,Overvoltage,Overcurrent,Phase loss,Overload,Frequency abnormality, Overtemperature,Communication timeout,Anti-islanding protection

DC-DC直流侧技术参数		
Equipment model	60V20A-48channel	100V100A-8channel
Number of DC output channels per cabinet	48	8
Rated power per channel	1.2	10
Total DC output channel power（kW）	57.6	80
Charge/discharge voltage range (V)	5-60	10-100
Single-channel current range(A)	±20	±100
Current range of paralleled DC channels (A)	±200 (with 10 channels in parallel)	±800 (with 8 channels in parallel)
Energy feedback efficiency	≥ 80%(Full load)	≥ 90%(Full load)
Output voltage sampling resolution (mV)	1	
Single-channel voltage accuracy	±0.05%F.S	
Output current sampling resolution (mA)	1	
Continuous sampling rate (ms)	≤10	
Power resolution (W)	0.1	

TYPICAL PRODUCT INTRODUCTION
典型产品介绍

750V500A-2通道

Application Fields

Primarily used in automotive power lithium battery modules, industrial/commercial energy storage modules, testing & quality centers, and major scientific research institutions.

System features

- High efficiency, low energy consumption, with power feedback to the grid
- The system adopts a common DC bus design, enabling automatic circulation of charging/discharging energy between different channels on the DC side
- Every channel features an independent CAN communication port, enabling real-time monitoring of BMS data such as cell voltage, temperature, state of charge (SOC), etc
- Seamless CC-CV transition without voltage/current spikes
- Advanced driving condition simulation capability with road load profile and standardized duty cycle (e.g., WLTP/NEDC) file import functionality.
- Modular design ensures clear structure and convenient maintenance.
- Implements multi-segment multi-point calibration architecture to ensure high-accuracy sampling across the full-scale range.
- Supports channel paralleling, effectively expanding product application scope.
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.

Key Specifications

AC-DC AC-side technical parameters	
Rated voltage (V)	380±10%
Frequency (Hz)	50±2(Other frequencies require customization)
Power factor	≥0.99
Total Harmonic Distortion (THD)	< 5%(At 50% load or above)
AC input	Three-phase five-wire system (grounding resistance ≤5Ω)
AC protection	Undervoltage,Overvoltage,Overcurrent,Phase loss,Overload,Frequency abnormality, Overtemperature,Communication timeout,Anti-islanding protection

DC-DC DC-side technical parameters	
Equipment mode	750V500A-2channel
Number of DC output channels per cabinet	2
Rated power per channel	375
Total DC output channel power (kW)	750
Charge/discharge voltage range (V)	20-750
Single-channel current range	±500
Current range of paralleled DC channels (A)	±1000(with 2 channels in parallel)
Energy feedback efficiency	≥ 97%(Full load)
Inter-channel cycling comprehensive efficiency	≥98.5%
Output voltage sampling resolution (mV)	1
Single-channel voltage accuracy	±0.05%F.S
Output current sampling resolution (mA)	1
Continuous sampling rate (ms)	≤10
Power resolution (W)	0.1

珠海九源电力电子科技有限公司
Zhuhai Jiuyuan Power Electronics Technology Co.,LTD

TYPICAL PRODUCT INTRODUCTION
典型产品介绍

1000V300A-2通道

Application Fields

Primarily applied in:
- Automotive power lithium battery modules
- Industrial/commercial energy storage modules
- Testing & quality certification centers
- Major scientific research institutions

▸ 系统特点

- High efficiency, low energy consumption, with power feedback to the grid
- The system adopts a common DC bus design, enabling automatic circulation of charging/discharging energy between different channels on the DC side
- Every channel features an independent CAN communication port, enabling real-time monitoring of BMS data such as cell voltage, temperature, state of charge (SOC), etc
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.
- The system features DBC file import capability with real-time monitoring of user-defined parameters (including cell voltage, state of charge, etc.) and automated storage of all DBC variable data.
- Modular design ensures clear structure and convenient maintenance.
- Implements multi-segment multi-point calibration architecture to ensure high-accuracy sampling across the full-scale range.
- Seamless CC-CV transition without voltage/current spikes
- Advanced driving condition simulation capability with road load profile and standardized duty cycle (e.g., WLTP/NEDC) file import functionality.

▸ Key Specifications

AC-DC AC-side technical parameters	
Rated voltage (V)	380±10%
Frequency (Hz)	50±2(Other frequencies require customization)
Power factor	≥0.99
Total Harmonic Distortion (THD)	＜5%(At 50% load or above)
AC input	Three-phase five-wire system (grounding resistance ≤5Ω)
AC protection	Undervoltage,Overvoltage,Overcurrent,Phase loss,Overload,Frequency abnormality, Overtemperature,Communication timeout,Anti-islanding protection

DC-DC DC-side technical parameters	
Equipment mode	1000V300A-2通道
Number of DC output channels per cabinet	2
Rated power per channel	300
Total DC output channel power (kW)	600
Charge/discharge voltage range (V)	100-1000
Single-channel current range	±300
Current range of paralleled DC channels (A)	±600(with 2 channels in parallel)
Energy feedback efficiency	≥ 96%(Full load)
Output voltage sampling resolution (mV)	1
Single-channel voltage accuracy	±0.05%F.S
Output current sampling resolution (mA)	1
Continuous sampling rate (ms)	≤10
Power resolution (W)	0.1

TYPICAL PRODUCT INTRODUCTION
典型产品介绍

SDCBUS-2000/100-450-2CD

Application Fields

Primarily used for centralized testing of battery modules in:
- Low-speed vehicles
- E-bikes
- Drones
- Power tools

and other applications.

System features

- High efficiency, low energy consumption, with power feedback to the grid
- The system adopts a common DC bus design, enabling automatic circulation of charging/discharging energy between different channels on the DC side
- Every channel features an independent CAN communication port, enabling real-time monitoring of BMS data such as cell voltage, temperature, state of charge (SOC), etc
- Seamless CC-CV transition without voltage/current spikes
- Advanced driving condition simulation capability with road load profile and standardized duty cycle (e.g., WLTP/NEDC) file import functionality.
- Modular design ensures clear structure and convenient maintenance.
- Implements multi-segment multi-point calibration architecture to ensure high-accuracy sampling across the full-scale range.
- Supports continuous multi-channel paralleling (up to 5 channels), effectively expanding product application scope.
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.
- The system features DBC file import capability with real-time monitoring of user-defined parameters (including cell voltage, state of charge, etc.) and automated storage of all DBC variable data.

Key Specifications

AC-DC AC-side technical parameters	
Rated voltage (V)	380±10%
Frequency (Hz)	50±2(Other frequencies require customization)
Power factor	≥0.99
Total Harmonic Distortion (THD)	< 5%(At 50% load or above)
AC input	Three-phase five-wire system (grounding resistance ≤5Ω)
AC protection	Undervoltage,Overvoltage,Overcurrent,Phase loss,Overload,Frequency abnormality, Overtemperature,Communication timeout,Anti-islanding protection

DC-DC DC-side technical parameters	
Equipment mode	2000V450A-2chennel
Number of DC output channels per cabinet	2
Rated power per channel	450
Total DC output channel power (kW)	900
Charge/discharge voltage range (V)	100-2000
Single-channel current range	±450
Current range of paralleled DC channels (A)	±800V (8 channels in parallel)
Energy feedback efficiency	≥ 97% (at full load)
Output voltage sampling resolution (mV)	1
Single-channel voltage accuracy	±0.05%F.S
Output current sampling resolution (mA)	1
Continuous sampling rate (ms)	≤10
Power resolution (W)	0.1

珠海九源电力电子科技有限公司
Zhuhai Jiuyuan Power Electronics Technology Co.,LTD

TYPICAL PRODUCT INTRODUCTION
典型产品介绍

SDCBUS-2400/100-500-1CD

Application Fields

Primarily used for centralized testing of battery modules in low-speed vehicles, e-bikes, drones, power tools, etc.

System features

- High efficiency, low energy consumption, with power feedback to the grid
- The system adopts a common DC bus design, enabling automatic circulation of charging/discharging energy between different channels on the DC side
- Every channel features an independent CAN communication port, enabling real-time monitoring of BMS data such as cell voltage, temperature, state of charge (SOC), etc
- Seamless CC-CV transition without voltage/current spikes
- Advanced driving condition simulation capability with road load profile and standardized duty cycle (e.g., WLTP/NEDC) file import functionality.
- Modular design ensures clear structure and convenient maintenance.
- Implements multi-segment multi-point calibration architecture to ensure high-accuracy sampling across the full-scale range.
- Supports continuous multi-channel paralleling (up to 5 channels), effectively expanding product application scope.
- Automatically associates with test procedures via QR code scanning, initiates testing autonomously, and determines test results based on predefined conditions.
- The system features DBC file import capability with real-time monitoring of user-defined parameters (including cell voltage, state of charge, etc.) and automated storage of all DBC variable data.

Key Specifications

AC-DC AC-side technical parameters	
Rated voltage (V)	380±10%
Frequency (Hz)	50±2(Other frequencies require customization)
Power factor	≥0.99
Total Harmonic Distortion (THD)	< 5%(At 50% load or above)
AC input	Three-phase five-wire system (grounding resistance ≤5Ω)
AC protection	Undervoltage,Overvoltage,Overcurrent,Phase loss,Overload,Frequency abnormality, Overtemperature,Communication timeout,Anti-islanding protection

DC-DC直流侧技术参数	
Equipment mode	SDCBUS-2400/100-500-1CD
Number of DC output channels per cabinet	1
Rated power per channel	1200
Total DC output channel power (kW)	1200
Charge/discharge voltage range (V)	100-2400
Single-channel current range	±450
Current range of paralleled DC channels (A)	±800V (8 channels in parallel)
Energy feedback efficiency	≥ 96% (at full load)
Output voltage sampling resolution (mV)	0.1
Single-channel voltage accuracy	±0 .05%F.S
Output current sampling resolution (mA)	1
Continuous sampling rate (ms)	≤10
Power resolution (W)	0.1

SOFTWARE SYSTEM
软件系统

Key Features

Clear and intuitive interface, easy to operate, with real-time display of critical information.

Supports DCIR testing (single cell & module), operating condition simulation, and multi-channel parallel connection.

Supports tracking modes (current tracking / power tracking)

Supports scan-triggered automatic test initiation, scan-based test procedure auto-binding, and GB code auto-reading.

Supports customizable fail criteria, automated test result judgment, and automatic test report generation.

The system provides:
Real-time step editing capability
User-definable step execution criteria
Advanced logical operations for step conditions

The system features DBC file import capability with real-time monitoring of user-defined parameters (including cell voltage, state of charge, etc.) and automated
storage of all DBC variable data.

Supports automatic, batch, and conditional test data export, with automated backup/compression and MES integration capabilities.

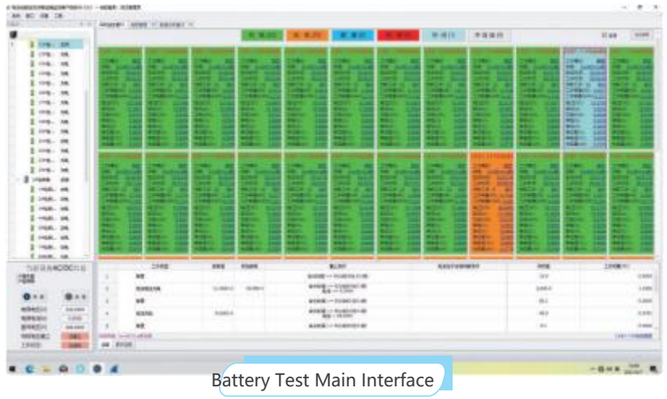
Supports automatic synchronization and modification of test process files within LAN, with cross-device data retrieval and status monitoring capabilities.

Features an open-architecture software topology designed for customizable testing requirements.

Technical Specifications

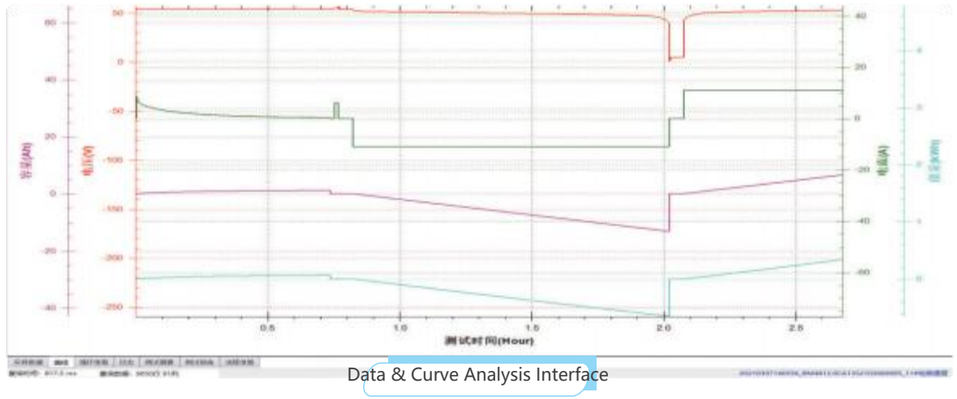
Real-time data refresh	100ms
Data storage interval	Configurable range: 0.01 to 9999 seconds
Battery capacity metering	Unlimited
Battery capacity measurement resolution	0.0001Ah
Electric energy metering	Unlimited
Energy measurement resolution	0.0001kwh
Programmable step quantity	9999
Battery code input	Supports manual and QR code scanning for data entry, and allows automatic test initiation via scanning.
Nested loop	5-level nesting
Minimum step duration	100ms
Step cycle count	9999
Condition response time	100ms
Charging operation mode	Supports multiple charging modes, including Constant Current (CC), Constant Voltage (CV), CC-to-CV Transition, Constant Resistance (CR), Constant Power (CP), and Pulse Charging (seamless switching between CC/CV with no electrical shock).
Discharge operation mode	Supports constant current (CC), constant power (CP), constant resistance (CR), and pulse discharge modes.
Charge/discharge termination criteria	Monitoring parameters include Cycle Testing, Current, Voltage, Power, Step Capacity, Step Energy, Cell Temperature, Cell Voltage, Cell Voltage Difference, Cell Temperature Difference, State of Charge (SOC), Step Duration, and Custom Variables.
Cycling mode	Arbitrary combination of charging, discharging, resting, and pausing steps
Software protection	Automatic shutdown protection upon host computer communication interruption
Programmable parameters	Parameters including Current (I), Voltage (V), Power (P), Duration, Capacity (Ah), and Energy (Wh)
Resume function	The host PC automatically records test progress and supports test resumption after power failure or host restart.
Background software protection & logging	Battery pack protection against charge/discharge voltage anomalies, full-process parameter logging, with manual or barcode scanner input for production batch information.
MES integration capability	Capable of MES system integration with automated test result reporting for each battery pack
Access control	Supports three-tier permission management

SOFTWARE INTERFACE
软件界面

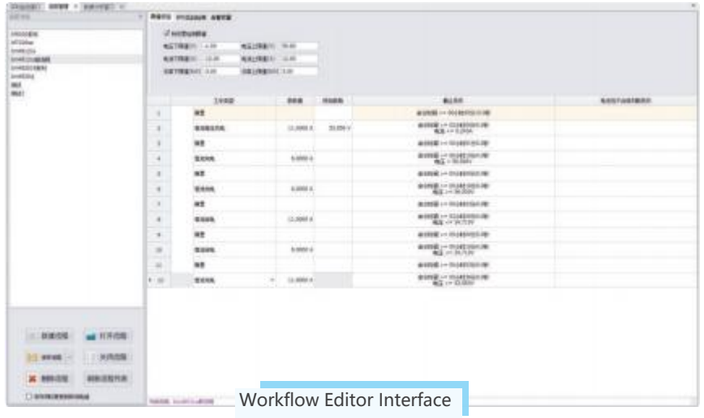


Battery Test Main Interface

System Settings Interface

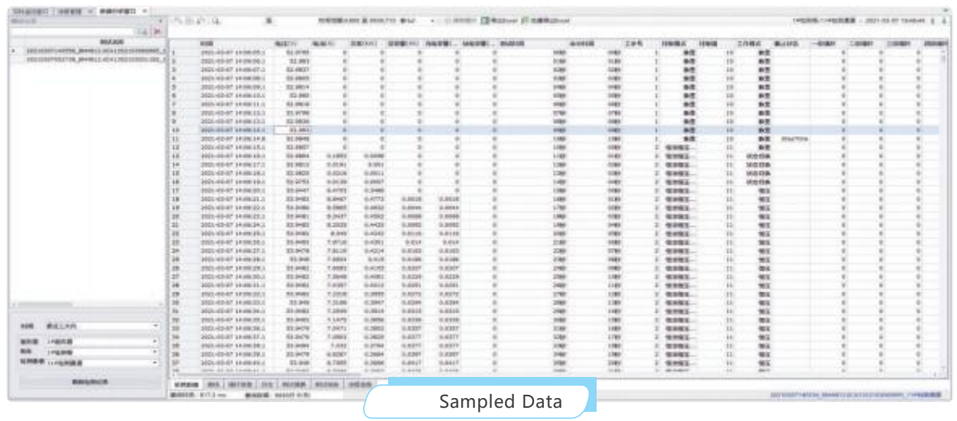


Data & Curve Analysis Interface



Workflow Editor Interface

Auto-Calibration Interface



Sampled Data

TYPICAL APPLICAT SITE
典型应用现场










TYPICAL CUSTOMER DISTRIBUTION
典型客戶分布

▸ 6S Workshop Corner