RCDS-750V/1000V/ 1500V/2000V

200A/300A/400A/500A/ 600A/1000A...4000A

RePower 瑞能

High Voltage & High Power Battery Test System

Application

RePower high voltage high Power battery test system adopts advanced instrumentation technology and power electronics technology to develop energy feedback type testing equipment, which is suitable for new energy vehicles, energy storage, battery packs and other lithium or lead-acid battery pack testing and quality control.

Test Functionality

- Conditional Pulse Test
- Matrix Test
- Charge Retention Capability
- Dynamic and Static SOC Test
- Cycle Life Test
- Temperature Characteristics Test
- Capacity Test
- DCIR Test

Advantages and Features

Split Design Free Match

The equipment consists of four parts: transformer cabinet, AC/DC power cabinet, DC/DC power cabinet, and upper computer system, which can meet various customized needs of customers, improve equipment utilization and production efficiency, and easy to maintain the equipment.

Support Cross-cabinet Parallel Connection

The equipment supports parallel connection across cabinets to increase the current range to extend higher power, i.e., the current is doubled according to the number of channels and the accuracy can be guaranteed, which can save costs and resource utilization and maximize the value of the customer's equipment.

Standard Sine Wave Feedback Energy Efficiency up to 96%

Charging and discharging two-way energy saving, saving a lot of power consumption expenditure, and at the same time save a lot of energy consumption heat generated by the air-conditioning electricity costs.

24-hour Offline Operation

The host computer samples high-performance multi-core CPUs, and the equipment can run offline for 24 hours after the communication interruption of the host computer, and then automatically resume after the communication is restored, so that the test will not be interrupted.

High-speed Road Condition Simulation

The equipment simulates arbitrary current/power waveforms of the battery during actual driving processes such as starting, climbing, braking, etc. of the car, providing reliable and comprehensive data to help customers shorten the development/validation cycle of the battery.

Three-level Technology

The equipment adopts three-level technology with wide voltage output range and low ripple current, which can adapt to the harsh grid environment and reduce loss and improve efficiency.

Product Parameters		
Voltage	Scope	0V~750V~2000V
	Accuracy	± 0.05% F.S
	Resolution	1mV
Current	Scope	200A/300A/400A/500A/600A/1000A...4000A
	Accuracy	± 0.05% F.S
	Resolution	1mA
Current response time		5ms (10%~90% F.S)
Current switching time		10ms (-90%~90% F.S)
Minimum operating interval		20ms
Communication		LAN
Third-party/auxiliary module linkage		Supports linkage between temperature box, MTV/MTS, I/O control box, chiller, etc.
Equipment size (W*D*H mm)		According to actual configuration

Note: For specific models and parameters, please refer to the corresponding technical specifications.

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Version number: RP-MKT-202605