

HRCDS-100V60A-C
HRCDS-100V30A-C

RePower 瑞能



Module/PACK Test System

Application

Mainly applied to the testing and quality control of smart lithium battery and lead-acid battery packs for electric bicycles, drones, medical equipment, balance cars and vacuum cleaners, realizing integrated charge and discharge data monitoring.

Test Functionality



Cycle Life Test



Capacity Test



Charge/Discharge
Test



Charge Retention
Capability



Overcharge/
Over-discharge Test



Temperature
Characteristics Test



Conditional
Pulse Test



DC Internal
Resistance Test

Advantages and Features

Energy Feedback



High-quality discharge energy feedback to the grid with efficiency up to 91%. Bidirectional energy-saving charge-discharge reduces significant electricity costs and minimizes additional cooling expenses caused by heat dissipation.

Multiple protections



Power failure protection, open circuit protection, short circuit protection, battery reverse/incorrect connection protection, overcurrent/overvoltage protection;

Dual high and low temperature protection, full temperature range monitoring.

High Precision



Stable and high-accuracy current/voltage sampling. Equipped with high-precision, high-dynamic-range ADC units, ensuring long-term stability in voltage measurements.

Offline Operation



Supports offline operation of devices, ensuring the safety and integrity of test data, and providing data channel migration functionality.

Communication function



The device supports RS485, CAN, TTL, single-wire and I²C communication, and can interact with battery BMS to collect BMS data in real time, enabling big data analysis and report generation.

Supports control of third-party devices



During the testing process, equipment such as the temperature chamber is controlled, and relevant test results are stored together to meet battery testing requirements (optional, relevant protocols are provided by a third party).

Product Parameters

Model		HRCDS-100V60A-C	HRCDS-100V30A-C
Single channel voltage	Single-channel measurement range	0V~100V	
	Accuracy	± 0.03% F.S	
	Resolution	0.1mV	
Single channel current	Single-channel measurement range	±60A	±30A
	Minimum output current	50mA	
	Accuracy	± 0.03% F.S	
	Resolution	0.1mA	
Current response time		5ms (10%~90% F.S)	
Current switching time		10ms (-90%~90% F.S)	
Communication method between equipment and control computer		LAN	
Battery BMS communication	Supports RS485, CAN, TTL, Single-wire and I ² C communication.		
	Supports one-click DBC import;		
Third-party/auxiliary module linkage	Supports linkage with incubator, MTV/MTS, I/O control box, etc.		
Dimensions (W*D*H mm)	600*800*1980		

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

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