

# MRCDS-750V~2000V

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



# RePower 瑞能

## MW-level High-Voltage High-Power Battery Test System

### Application

MW-level high-voltage test platform with power configurable on demand. It covers a full product line from 750V to 2000V, suitable for advanced R&D and mass production of high-voltage high-power battery packs, large-scale energy storage battery systems, power battery packs, solid-state batteries and sodium-ion batteries.

### Test Functionality



Off-peak  
Test



Four Seasons  
Cycle Test



Single-cell  
Constant  
Voltage Test



High-speed  
Operating Condition  
Pulse Test



Cyclic Life  
Test



Matrix Test



SOC Test



DC Internal  
Resistance Test

## Advantages and Features

### Ultra-high power density and excellent flexible scalability

Multi-cabinet cascading enables easy expansion to MW-level systems, lowering follow-up investment. Full modular design with independent module operation; single module failure does not affect overall system running, reducing O&M costs.

### Multi-channel Intelligent Energy Management

Multi-channel common bus design supports energy feedback among channels for energy saving and consumption reduction; Dynamic power allocation boosts test efficiency; Supports parallel testing of multiple products and mixed rate/working condition tests.

### Intelligent Software System

Seamlessly interconnected with MES, EMS and test management platforms; Realizes intelligent data analysis and automatic generation of test reports.

### Full-Scenario Multi-Level Safety Protection

Built-in multi-level hardware and software protection including overvoltage, overcurrent, overtemperature, overpower, short circuit, reverse connection and interlock; Real-time online monitoring of high-voltage insulation; Equipped with fire linkage, induction alarm and emergency stop interlock.

### MW Charge-Discharge Dynamic Response

Supports MW-level charge-discharge testing with millisecond transient control, zero overshoot and zero oscillation; Accurately simulates fast-charging conditions, high-speed pulse working conditions, dynamic loads and automotive-grade operating conditions; Multi-channel automatic current sharing ensures more stable output and higher precision.

## Product Parameters

Voltage	Scope	0V~750V~2000V
	Accuracy	± 0.02% F.S
	Resolution	1mV
Current	Scope	200A/300A/400A/500A/600A/1000A...4000A
	Accuracy	± 0.02% F.S
	Resolution	1mA
Current response time		3ms (10%~90% F.S)
Current switching time		5ms (-90%~90% F.S)
Power Range		600/800/1200kW (expandable to 10MW by parallel connection)
Minimum operating interval		10ms
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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