

# KATS-FCD Series Fuel Cell DCDC Test System



- . Routine Testing: Start-up test, efficiency test, durability test etc.
- . Protection Testing: Input/output over/under-voltage test, overcurrent test etc.
- . Control Performance Testing: Input/output voltage/current precision test, ripple test etc.

## Summary

Fuel Cell DCDC Test System is composed of EVS-F Series Fuel Cell Simulator, EVS Series Battery Simulator, control cabinet, and other supporting instruments. With control software independently developed by Kewell, the system can test the performance and functionality of fuel cell DCDC converter on control precision, efficiency, and response time. The system can be applied in the R&D process and quality inspection of fuel cell DCDC converters, including those of high-power levels.

## Functions

- Routine Testing: Start-up test, efficiency test, durability test etc.
- Protection Testing: Input/output over/under-voltage test, overcurrent test etc.
- Control Performance Testing: Input/output voltage/current precision test, ripple test etc.
- Work condition simulation
- Polarization curve simulation

## Advantages

- Versatile test items: Routine testing, precision testing, protection testing, dynamic simulation etc.
- Reliable test results: High precision power supply with electronic load, plus high precision test instruments and meters
- Customizable test procedures: Automatic reading, judgement, and storage of test data
- Support DBC file import & communication with DCDC converter
- Satisfy the testing needs of DCDC converters of different types and power levels
- Simulate the polarization curve of fuel cell by setting relevant parameters
- High quality energy recovery to the grid

Model: KATS-FCD		
Description		Models and Specifications
<b>System Composition</b>		
Main Components	Functions	Notes
EVS-F Fuel Cell Simulator	. Polarization curve simulation	Power range: 40kW-250kW
EVS Battery Simulator	. Battery charge-discharge characteristic simulation . Energy recovery to the grid	Power range: 40kW-250kW
Test System Cabinet	. System control & measurement	Instruments here are selected based on test requirements.
*The test system can be customized according to the specifications of DCDC converter (DUT)		