

RJ8600 Electric Vehicle Powertrain Safety Test System



System Introduction

The RJ8600 series electric vehicle safety test system is designed to test the electrical safety performance of battery PACK, motor controller, motor, high voltage distribution box, DC-DC and other high voltage powertrain system in the process. The system is capable of testing insulation resistance, insulation monitoring, whole-vehicle insulation, voltage withstand and potential equalization of each assembly component before/after loading, providing electric vehicle manufacturers with electrical safety performance verification and data support not available in traditional automobile production lines, and discovering quality or assembly problems of assembly components in a timely manner. The

system stores data and generates test analysis reports in various forms, which meets the needs of vehicle manufacturers for testing and validating the safety performance of electric vehicle power assemblies.

Key Features

- Comply with GB18384-2020 safety requirements for electric vehicles and GB38032 safety requirements;
- It has the functions of electric vehicle safety testing such as whole vehicle insulation, insulation monitoring, insulation resistance, potential equalization etc.
- Potential equalization output 8 channels;

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- Voltage withstand output capacity 500VA, Potential equalization output current up to DC 50A;
- Optional CAN bus communication unit for efficient verification of the status of the vehicle's controls.

Specification

Function		Technical specifications
Complete vehicle insulation	Measuring range	0.1MΩ~999.9MΩ
	Measured voltage	200V~1000V
	Testing Method	Dual voltmeter method
Insulation resistance	Output Voltage	100V~1000V
	Measuring range	0.1MΩ~9999MΩ
	Measuring channels	8 channels
Insulation monitoring	Resistance switching	5-level resistance automatic switching detection
	Methods of Judgment	CAN communication (optional), human judgment
Potential equalization	Output current	DC 5A~50A
	Measuring range	0mΩ~600mΩ
	Measuring channels	8 channels
	Testing Method	Four-terminal method
AC voltage withstand	Output Capacity	500VA
	Output Voltage	300V~5000V
	Measuring range	0.10mA~99.99mA