

ELECTRIC VEHICLE DRIVE AND DYNAMOMETER TRAINING SYSTEM



Non contractual photo

SERVICE :

REFERENCE : Y5607

- Students can intuitively understand the internal structure of the battery pack, such as the way the battery pack and product technology;
- Each battery pack is equipped with a separate sampling line communication with the main control module and achieve balanced control, you can use a multimeter and other special equipment to detect single cells;
- Equipment can start running, fully display the drive motor of the various conditions;
- The panel is equipped with electrical schematics, the expression DC / DC converter and motor controller works;
- Through the control panel detection hole on the control lines and signal lines for fault detection;
- Battery detection display can extract the battery voltage, current, storage charge and other parameters;
- The magnetic powder loader applies the load to the equipment. The output torque of the equipment is detected by the torque detector and displayed on the whole machine.

Educational Objectives :

- Understanding the structure and composition of the battery pack;
- Understanding the layout of the battery pack;
- Understanding single battery fault detection;
- Understanding communication fault detection;
- Understanding battery management system testing;
- Understanding electric vehicle signal acquisition experiments (resistance, voltage, current, etc.)
- Understanding electric vehicle motor structure learning;
- Understanding electric vehicle motor and motor controller high pressure safe operation training;
- Understanding electric vehicle high-voltage device disassembly test
- Understanding DC / DC converter works;
- Understanding analysis of instrument indicator light.

Technical specifications :

- Composition
 1. Power Battery Pack, Battery Management Controller BMS,
 2. Motor and Motor Controller, DC / DC Converter, Car Charger, Control Panel,
 3. High Voltage Connection Cable, High Voltage Acquisition Module,
 4. Magnetic Powder Loader, Torque Meter Assembly Wait.
 5. Size : length and width 1,500 X 700 X 1,700 mm
 6. Operating voltage : DC12V low voltage, high voltage : DC72V
 7. Adjust the maximum running speed.

- Electrical Data recording while driving. (voltage, current, speed, slip, etc)