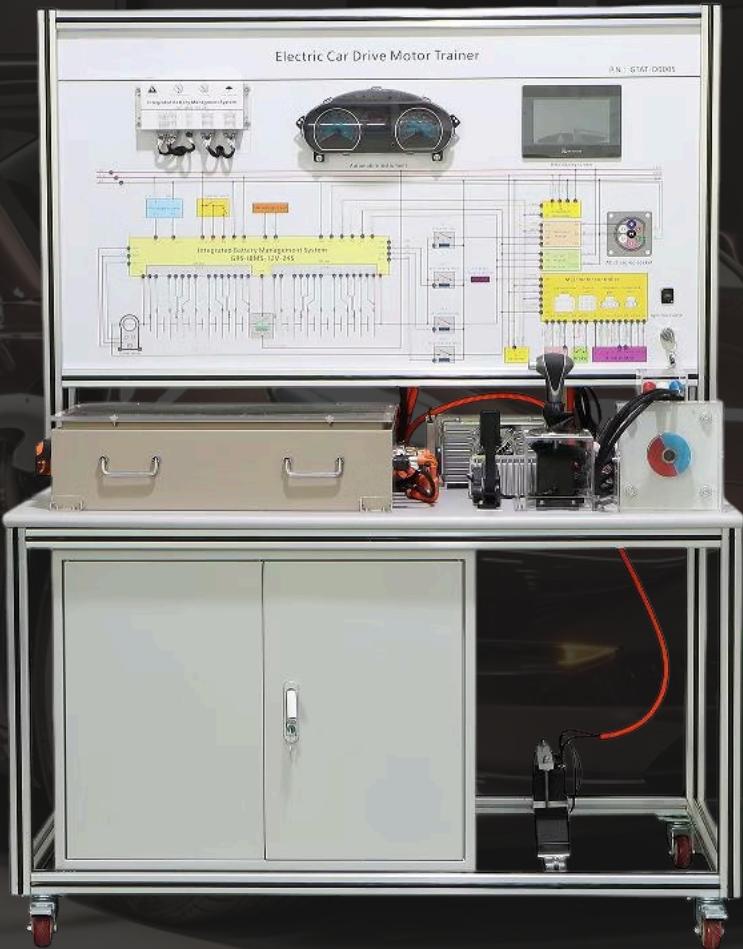




QL – Electric Vehicle Training System

The QL – Electric Vehicle Training System is a fully integrated, hands-on electric vehicle education platform developed by QuakeLogic for advanced automotive training programs, technical colleges, and vocational institutions. This comprehensive system combines a fully drivable electric vehicle training platform, two EV electrical systems laboratory benches, and a complete set of tools, safety equipment, and digital training materials.

Students gain real-world experience in electric vehicle systems, diagnostics, safety procedures, and maintenance through this purpose-built educational solution. The system enables institutions to deliver cutting-edge EV training that aligns with modern industry standards and workforce development needs. Designed exclusively for on-campus instructional use, this platform provides the foundation for comprehensive electric vehicle technology education.



Complete System Configuration

The QL – Electric Vehicle Training System is delivered as a single, unified solution designed to provide everything needed for comprehensive electric vehicle education. This integrated approach ensures that all components work seamlessly together, eliminating compatibility concerns and simplifying procurement for educational institutions.



EV Training Vehicle

1 fully drivable electric vehicle with partial educational cutaway structure (Model: QL-EVTS-V96)



Electrical Systems Labs

2 identical EV test benches for hands-on powertrain and battery system training (Model: QL-EVTS-LAB48)



Tools & Safety Kit

Complete set of specialized tools, high-voltage safety equipment, and diagnostic instruments (Model: QL-EVTS-TK)



Training Resources

Comprehensive digital training materials, instructional videos, and instructor resources



All components are supplied as an integrated system under a single product offering, ensuring consistency, quality, and ease of implementation for educational programs.

EV Training Vehicle: QL-EVTS-V96

Purpose-Built Educational Platform

The EV Training Vehicle is a fully functional electric vehicle adapted specifically for instructional and training purposes. This purpose-built platform incorporates a partial educational cutaway structure, allowing visual access to key internal components while maintaining full drivability and operational integrity.

96V 20kW 170km 100

System Voltage	Motor Power	Max Range	Top Speed (km/h)
AC drive system	PMSM technology	CLTC standard	Fully drivable



The innovative cutaway design includes strategic sections of doors, engine hood, roof sections, battery cover, and trunk panels. This allows students to visually inspect internal systems without compromising vehicle functionality or safety. All core systems—including drive, steering, braking, and power systems

Vehicle Technical Specifications

The QL-EVTS-V96 training vehicle incorporates modern electric vehicle architecture aligned with current industry standards. The comprehensive specifications ensure students work with technology that reflects real-world EV systems found in today's automotive market.

1

Vehicle Type

Electric Vehicle Training Platform

2

Seating Layout

4 seats (2 front + 2 rear)

3

Drive System

96V AC drive system

4

Motor Type

Permanent Magnet Synchronous Motor (PMSM)

5

Motor Power

20 kW

6

Battery Type

Lithium Iron Phosphate (LFP)

7

Battery Capacity

9.3 kWh / 13.4 kWh

8

Battery Voltage

96V DC

9

Maximum Speed

100 km/h

10

Driving Range (CLTC)

120 km / 170 km

11

Charging Method

220V household AC charging

12

Charging Time

Approximately 6–9 hours (0–100%)

13

Vehicle Dimensions

2920 x 1493 x 1621 mm

14

Safety Features

Headlights, seat belts, windscreen included

15

Operational Status

Fully drivable



EV Electrical Systems Lab: QL-EVTS-LAB48

Each EV Electrical Systems Lab is a standalone, fully functioning EV test bench designed to support in-depth training on electric vehicle powertrain and battery systems. Two identical lab units are included to support parallel instruction, group exercises, and skills assessment, enabling multiple students to work simultaneously on different aspects of EV technology.

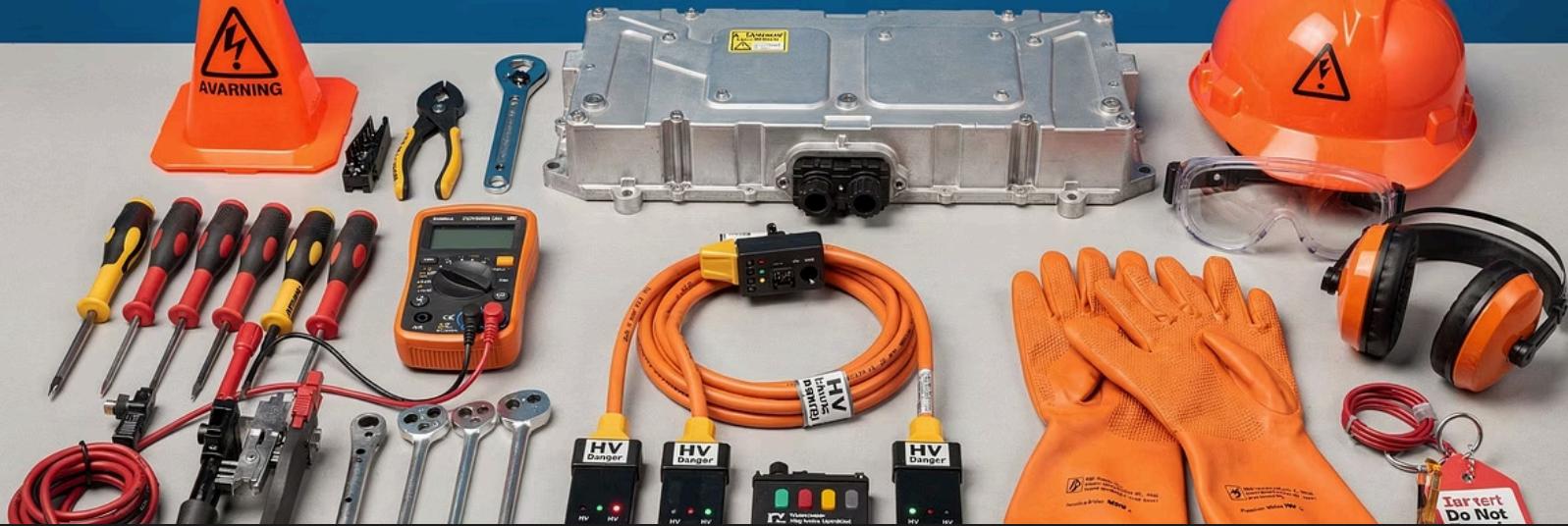
Technical Specifications

- Quantity Supplied:** 2 identical units
- Motor Type:** Three-phase AC asynchronous motor
- System Voltage:** 48V
- Battery Configuration:** Minimum 16 LFP battery cells
- Battery Management:** Integrated BMS with software
- Programming Laptop:** Dedicated laptop included
- Frame/Table:** Durable classroom-grade structure
- Dimensions:** Approximately 1380 × 750 × 1800 mm
- Weight:** Approximately 150 kg per unit

Training Capabilities

- EV motor operation and control
- Battery management and diagnostics
- High-voltage safety procedures
- Insulation resistance testing
- High-voltage interlock system testing
- Data acquisition and system monitoring

These comprehensive capabilities ensure students develop practical skills in all critical aspects of electric vehicle electrical systems.



Tools, Safety Equipment & Training Materials

The QL – Electric Vehicle Training System includes a comprehensive tools and safety package supporting both instructional demonstrations and hands-on student training. This complete kit ensures students can safely work with high-voltage systems while developing proper industry practices.

Programming & Interfaces

- Programming laptop (pre-installed with EV/BMS software)
- Android-based BMS interface tablet

High Voltage Safety Kit

- (2) insulated 1/4" ratchet socket sets
- Insulated box-end wrenches (7mm, 8mm, 9mm, 10mm)
- (3) sets insulated high-voltage gloves
- (1) insulated safety hook (~6 ft)
- (12) anti-fog safety goggles
- (2) digital multimeters

Diagnostic Tools

- BMS wiring / cell tap validator (or equivalent)

Digital Training Materials

- EV training manuals
- Instructional and demonstration videos
- System operation guides
- Safety procedures and best-practice documentation

These materials support both instructor-led teaching and independent student learning, ensuring comprehensive coverage of electric vehicle technology and safety protocols.



Applications, Warranty & Support

1

Educational Applications

The QL – Electric Vehicle Training System serves a wide range of educational and workforce development programs:

- **Electric Vehicle Technology Programs:** Comprehensive EV curriculum delivery
- **Automotive Technician & Maintenance Training:** Modern EV service skills
- **Hybrid & EV Certification Courses:** Industry-recognized credential preparation
- **Technical Colleges and Vocational Institutions:** Advanced automotive education
- **Workforce Development and Reskilling Programs:** Career transition support

This versatile platform adapts to various educational contexts, from introductory courses to advanced certification programs, ensuring institutions can meet diverse student needs and industry requirements.

2

Warranty Coverage

12 months comprehensive warranty included with system purchase

Documentation

Complete system documentation and operational guides provided

Technical Support

Remote technical support available throughout warranty period



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