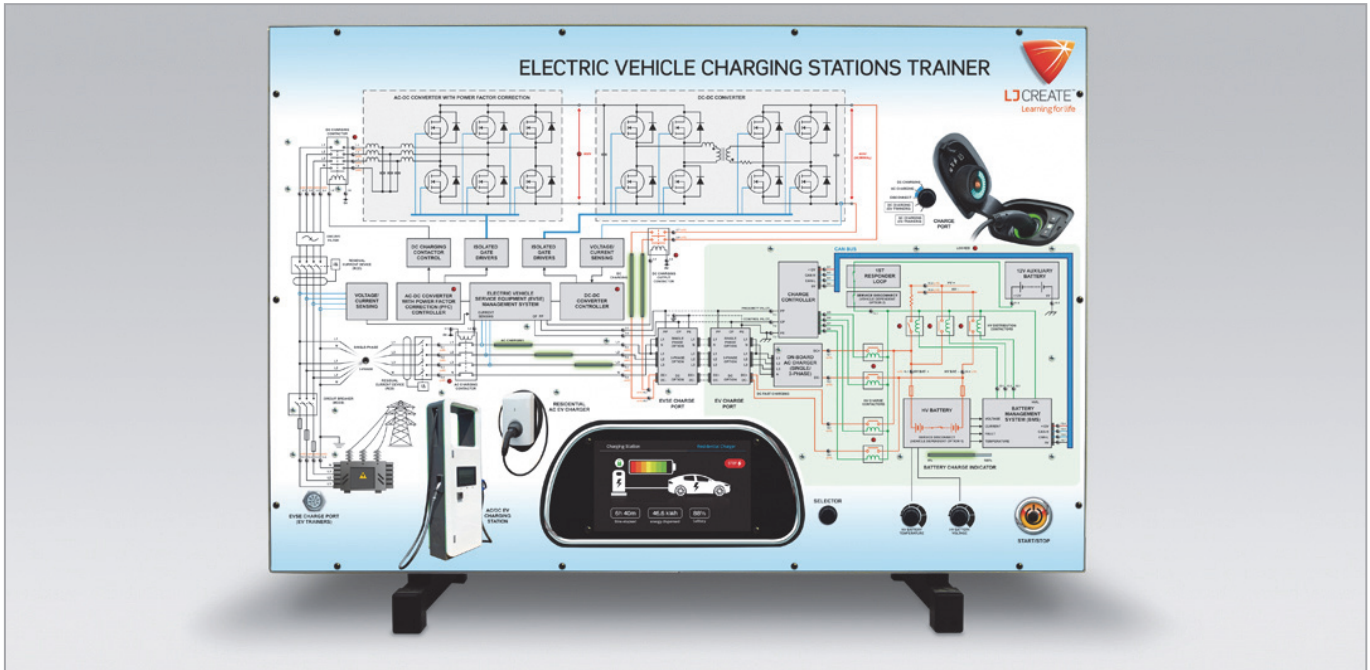


Product Information Sheet

Electric Vehicle Charging Stations Panel Trainer



The Electric Vehicle Charging Stations Panel Trainer provides students and instructors with the opportunity to demonstrate, investigate and fault-find a simulation of different levels of electric vehicle charging station.

The trainer is designed to illustrate the operation of residential, commercial and on-board charging systems as well as provide a mimic of the electrical power flow. The trainer also includes test points at a safe voltage level to allow for investigation of electrical circuits. To facilitate the development of techniques in diagnostics and fault-finding skills, the panel includes a range of fault-insertion options to simulate typical real-world system malfunctions.

This trainer includes access to digital curriculum materials including theory and practical learning tasks. The trainer can also be used in conjunction with our optional cloud-based software, which offers online practical electronics tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

The Panel Trainer Provides the Following Features:

- Simulation of electrical power flow
- LCD panel with charging station and on-board visualization
- Simulation and visualisation of electrical power flow
- Charge level type selector
- Port to connect to other LJ Create EV Panel Trainers
- Start/Stop Button
- Service Disconnect Switch
- Controls to adjust HV battery voltage and temperature
- Battery stack and on-board charger circuit simulation
- Terminals to make DC and AC circuit measurements
- Manual or automatic fault insertion (16 Faults)

Typical Practical Tasks Include:

- AC Charging Station - Single Phase
- On-Board Vehicle Charging Circuit
- AC Charging Station - Three Phase
- AC Inverter Circuit
- DC Fast Charging Station Operation
- DC/DC Converter Circuit
- Voltage and Current Sensing
- Charging Station Safety - RCD
- Charging Station and Vehicle Communications
- Electric Vehicle Service Equipment Management (EVSE)
- Charging Station Software
- Introduction to Troubleshooting the Charging Station Panel
- Troubleshooting Connector and Cable Failures
- Troubleshooting Isolation Faults
- Troubleshooting Grid Phase Imbalance
- Identifying Central and Proximity Pilot Errors
- Troubleshooting EVSE Faults
- Troubleshooting the Effects of Over-Temperature
- Interconnecting the LJ Create EV Panels

Items Included:

- Trainer
- Curriculum in digital format
- Wall mounting brackets and bench stands

Other Items Required:

- Lab scope

General Information:

Trainer Dimensions: 900 x 170 x 600 mm (W, D, H)
Packed Volume: Approx. 0.316 m³
Packed Weight: Approx. 26 kg

Order Code: 743-01

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For more information visit www.ljcreate.com