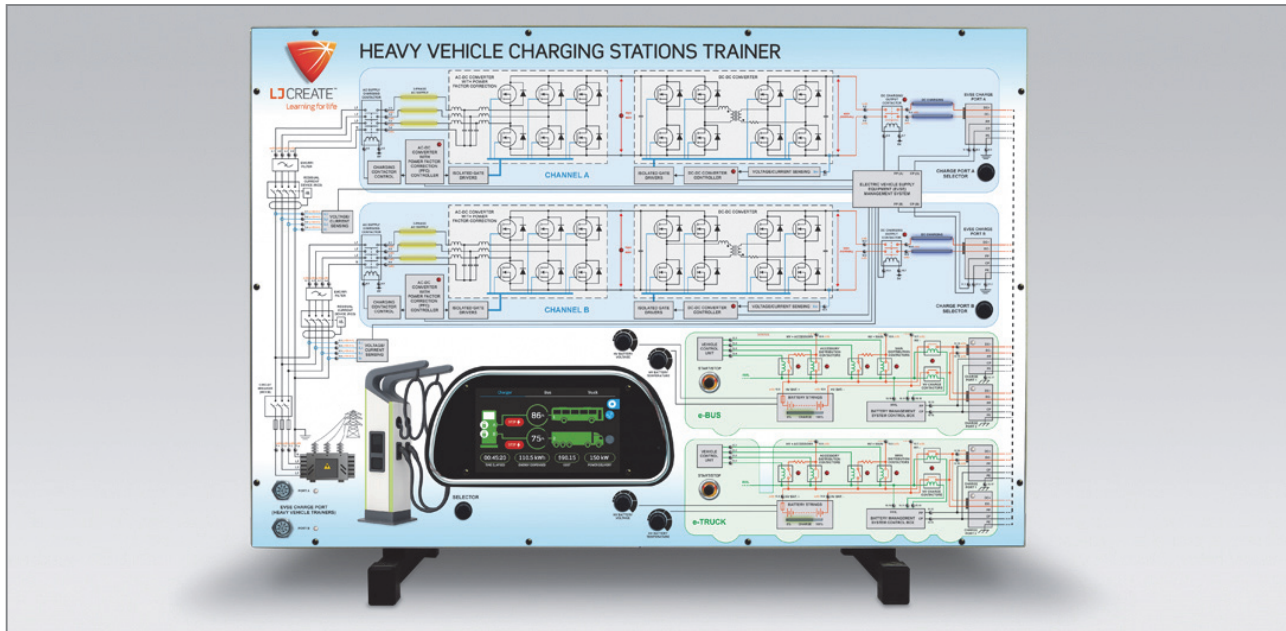


Product Information Sheet

Bus and Truck Charging Stations Panel Trainer



The Bus and Truck Charging Stations Panel Trainer provides students and instructors with the opportunity to demonstrate, investigate, and fault-find a simulation of a multi-vehicle heavy electric vehicle charging station.

The trainer is designed to illustrate the operation of public and private sector charging systems for buses and goods vehicles. The trainer provides a mimic of the electrical power flow(s) and 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:

- LCD panel with charging station and on-board visualization
- Simulation and visualisation of electrical power flow
- On-board bus and goods vehicle simulation
- Selection switch for charging contactors or ports
- Port to connect to other LJ Create EV panel trainers
- Start/stop button
- Service disconnect switch
- Controls to adjust HV battery voltages and temperatures
- Terminals to make DC and AC circuit measurements
- Manual or automatic fault insertion (16 Faults)

Typical Practical Tasks Include:

- DC fast charging stations operation
- AC/DC converter and controller
- DC/DC converter circuit
- Voltage and current sensing
- Charging station safety - RCD
- Charging station and vehicle communications
- Electric vehicle supply equipment management (EVSE)
- EVSE status monitoring
- Charging station software
- Introduction to troubleshooting the 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
- Digital multimeter

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: 746-01

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For more information visit www.ljcreate.com