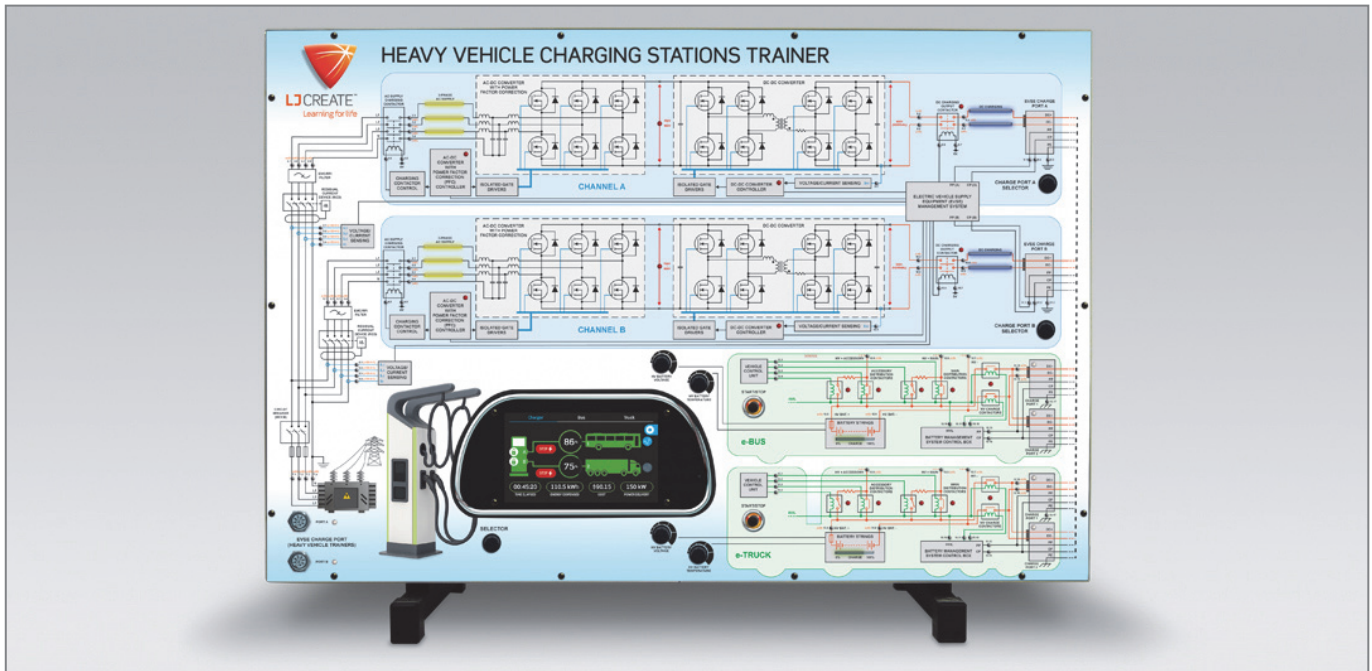


# Product Information Sheet

## Heavy Vehicle Charging Stations Panel Trainer



The Heavy Vehicle 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 m<sup>3</sup>  
Packed Weight: Approx. 26 kg

**Order Code: 746-01**

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