

HV Battery Simulator Trainer



Product description

Many of the major challenges an automotive professional facing with are related to diagnostics, maintenance and repair of HV batteries. Organising a training day related to HV batteries in a safe environment is considered an almost impossible task. The industry needs an instrument to help them deliver high-level and yet completely safe trainings related to HV batteries for their colleagues and customers. The HV battery simulator provides a modern and safe way to teach about HV batteries for every training centres and institutes.



Technical specification

Realistic

- Resembles a real traction HV battery pack of a vehicle
- Dimensions: 120 x 60 x 25 cm
- Easy to move: Less than 40 kgs total
- Needs only 230 VAC wall outlet to work
- Contains 60 cells in series, arranged into 5 modules
- Disassemblable and assemblable up to cellular level
- Available measurements: V, mΩ, Ω, MΩ, A
- Measurable battery pack voltages: from 120 to 490 V
- Setup parameters: manufacturer, cell type, SoC and capacity
- Incorporated DTC and live data varies with fault setup
- Cyclic single cell charger simulator with revitalisation effect

Safe

- Less than 10 mA fault current due to accidental touch
- Excludes hazardous chemical substances, no electro-chemical energy storage
- Warning appears when dangerous measurement or mishandling detected
- Adapts to all trainee audiences (secondary, higher education or professional level)
- Applies Augmented Reality for extra functions (eg. thermal imaging)
- Can be transported safely
- Suitable for classroom teaching

Effective

- Simulates 19 different malfunctions from faulty cells to insulation error
- Demonstrates 99 million different measuring iterations
- 10 000 different fault finding scenarios (exam-mode)
- Screen-mirroring function with projector or TV for better group trainings
- No need for any external measuring equipment
- Upkeep and maintenance is minimal

HV Battery Simulator package includes

- 1 pc - HV battery pack
- 1 pc - Head unit
- 2 pcs - Measuring test leads and cables
- 1 pcs - power supply (12VDC3A)
- 1 pcs - printed, 172 page english manual