FEV Signature Solutions Accelerated discharger for battery electric vehicles

Our solutions enable new players, OEMs, tier 2 and 3, and test agencies to expedite development for battery electric passenger and commercial vehicles

FEV offers

- Service provision, discharger rental, and engineering services
- Turnkey product sales
- Discharger licensing
- User defined discharging options:
 - Vehicle to heat
 - Vehicle to vehicle
 - Vehicle to grid
 - Transient drive cycle for durability testing



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Why FEV

- Proven solution for HV battery discharging without disassembly or need to remove any screws from the vehicle
- User defined options to enable you to discharge the HV battery with desired power
- Customization by FEV to exactly address your needs
- Economical and time efficient solution

Reference projects

ACCELERATED DISCHARGER FOR BATTERY ELECTRIC VEHICLES

Validation testing for Asian OEM

- Validation tests that require the battery of the electric vehicle to be discharged before the validation test is performed
- Performed tests: •
 - Cooling performance at Low SOC (40C, 45C)
 - Heating performance at Low SOC (0C, -20C)
 - SFC charging (0C, -20C, 45C, 25C)
 - AC charging 11kW _ (0C, -20C, 45C, 25C)
 - AC charging 7kW (0C, -20C, 45C, 25C)
 - AC charging 3.3kW _ (0C, -20C, 45C, 25C)
 - Coasting regeneration at Low SOC _
 - Braking biased regeneration at Low SOC
 - Performance operation at Low SOC
 - Gradeability at Low SOC







(Vehicle to heat)



application (Battery control system; IN 2023 110 656 37)



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Functions overview

ACCELERATED DISCHARGER FOR BATTERY ELECTRIC VEHICLES



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Use cases

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