

FEV Signature Solutions

Partial discharge prevention for EVs

Our unique partial discharge solution provides you more reliability in electric vehicles

FEV offers

- ▶ Detect partial discharge inside EDU even during operations (sample rate in μs range)
- ▶ Early detection and elimination to avoid failures during operations
- ▶ Setup of measurement routines including remote service
- ▶ Analysis of the measurement data
- ▶ Characterization of partial discharge results with potential system impact
- ▶ System analysis & consulting, benchmarking

WHY FEV

- ▶ Over 25 years of experience with partial discharge in various industries
- ▶ Product information:
www.fev.com/partialdischarge



Reference projects

PARTIAL DISCHARGE PREVENTION

Formula E Race

PD engineering with
AC synchronization
Inverter 800V
SiC technology



Offroad heavy duty

PD engineering with PWM
synchronization
Inverter 800V
IGBT-technology



Series vehicles in our test lab

Realtime measurements in inverter
Inverter 800V front and rear axle
Different speeds and load profiles



FEV's solution and services

PARTIAL DISCHARGE PREVENTION



PD-HVX
MEASUREMENT SYSTEM

Measuring system

- Measuring device – including operating and analysis software
- Training and commissioning
- Consulting measurement
- **Starter package:** Training, commissioning, 2 days of measurements in the test field

Measurement service

- Setup of measurement routines including remote service
- Performing measurements
- Analysis of the measurement data
- Creation of reports including recommendations

Elimination of partial discharge risk

- Characterization of partial discharge results with potential system impact
- System analysis & consulting
- Proposal of solutions
- Development & testing
- Project management for partial discharge engineering

Get in touch with us for further information



[www.fev.com/en/
signature-solutions](http://www.fev.com/en/signature-solutions)