



Mobility and Charging Infrastructure

Testing and certification by the VDE Institute ensures trouble-free mobility with the appropriate charging infrastructure, irrespective of whether the engine is electric or fuel-powered.

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VDE

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Electronic components are built into every motor vehicle. We test them for their electrical safety and subject them to many different environmental simulation processes.

As a technical service appointed by the Federal Motor Vehicle Transport Authority (KBA), the VDE Institute on the one hand checks if electric vehicles, light electrical vehicles (LEV) and pedelecs are safe, particularly with regard to their electromagnetic compatibility (EMC) according to UN ECE-R10. Even components (ESA = electronic sub-assemblies) of conventional vehicles are tested by the VDE Institute according to ECE R 10.

Likewise, electrical safety in vehicles and their components based on guidelines, standards, manufacturer specifications and manufacturer shipping instructions are given great importance.

Standards that come into question for a conformity statement on the low-voltage and radio directive (RED) can also be used and their compliance can be verified. If no harmonized standards according to ETSI are used for built-in radio modules or radio devices, we, as a notified body as per Directive 2014/53/EU (RED), are available as a solution for customers.

Due to our high level of expertise, we test the charging infrastructure with its wallboxes, AC and DC charging stations, cooled high-power charging systems and charging cable assemblies (IC-CPDs), which are

included with all electric vehicles. This also applies to inductive charging systems that are tested and certified in detail. According to the MID Directive (2014/32/EU), the VDE Institute is an appointed body for electricity meters that can be installed in charging stations and can therefore perform all the necessary tests and conformity evaluations.

Naturally, comprehensive testing options, even during a product's development phase, are available to our customers.

Electrical components for pedelecs and e-bikes must be tested for safety, from the motor and battery to the cables and wires and even the switches.

Furthermore, we test the functional safety of all mobile machines like pedelecs, hoverboards and mini-drones.

They include predictable misuse the error rates of critical parts and systematic errors in development and production. Furthermore, compliance with the CE declaration of conformity is reviewed. This ensures that the manufacturer and distributing company have performed their due diligence.

Please visit us online for more information



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