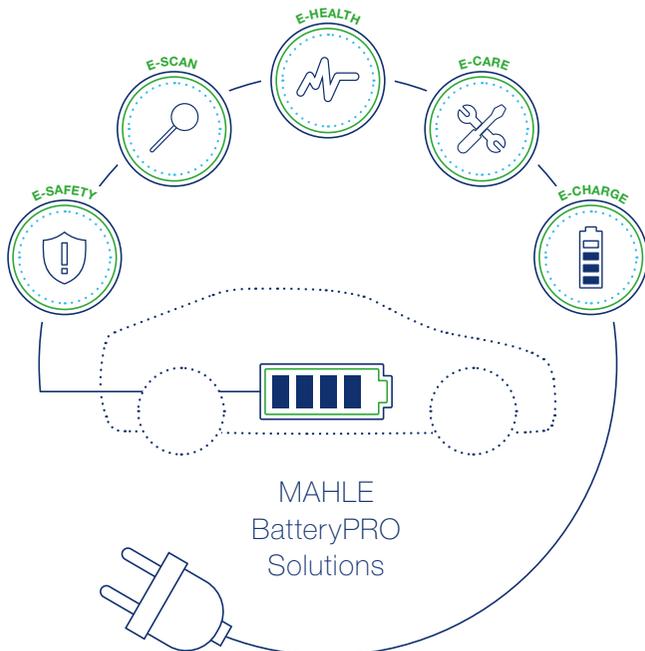
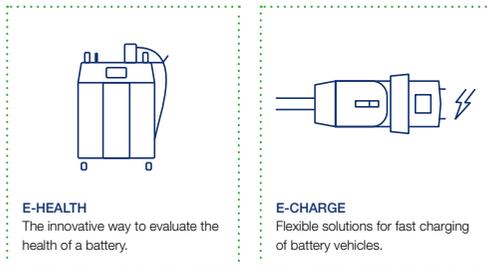


Future proof



BatteryPRO diagnostics and service solutions

With its BatteryPRO diagnostics and service solutions, MAHLE Aftermarket is one of the first providers worldwide to enable independent workshops to perform battery diagnostics on electric vehicles, thus helping them to secure additional business volume beyond the combustion engine.



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BatteryPRO E-HEALTH Charge



Why battery diagnostics?

Battery diagnostics are essential for the maintenance and repair of an e-vehicle—but they also play an important role in determining residual value. Reliable diagnostics of the traction battery can be crucial when purchasing a used electric car.

Fast and independent

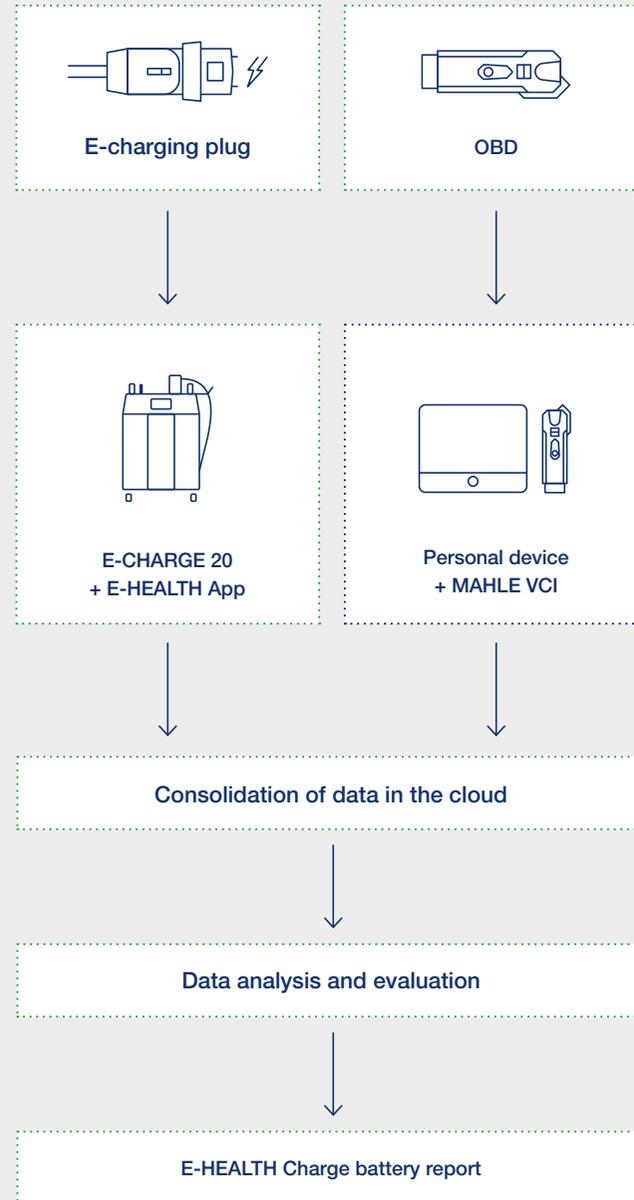
The E-HEALTH Charge battery diagnostic solution combines DC charging and diagnostics and provides reliable information about the state of health and performance of a high-voltage battery – based on their available residual capacity. It consists of the E-CHARGE 20 battery charger and the E-HEALTH App.

The measurement takes place while the vehicle's high-voltage battery is being charged and only needs 15 minutes. It is vehicle and manufacturer-independent and supplemented with data via the OBD port. The data is then evaluated in a cloud from the battery specialists voltyca diagnostics, classified in relation to already recorded batteries of the same type and compared with the original capacity of the vehicle model.

E-CHARGE 20 can be used flexibly in the workshop with the help of rollers – also purely as a DC charger.

The pilot phase of E-HEALTH Charge already started at the beginning of 2022 with selected partners, for example TÜV NORD.

Our approach to battery diagnostics



Highlights

- Battery diagnostic within 15 minutes
- Vehicle does not have to be moved during operation
- Manufacturer-independent diagnostics
- Flexible working environment through mobile device
- Ready for use in maximum two minutes
- Can be used purely as a DC charger with 20 kW

The screenshot shows a report from voltyca diagnostics and MAHLE. It includes vehicle data, implementation details, test data, and performance indicators. A color-coded bar at the bottom indicates the state of health, with 'Your vehicle*' marked at the end of the scale.

Vehicle data			
Customer (vehicle owner)	145204aad	Manufacturer	XY
Official identification	AA-X123E	Model	XY
First registration	09/22/2019	Engine identification	XY
Mileage	11,435 km	FIN	ABC123 ABC 1234

Implementation Details			
Reviewer	MAHLE	Version loading profile	1
Location	Stuttgart	OBd Availability	Yes

Test data			
Duration	10:45 min	Max. loaded performance	14.4 kW
Start of SoC	56%	End of SoC	62%

Indicator of available residual capacity	
Estimation of the residual capacity released by the manufacturer in relation to the nominal capacity	95%

Performance indicator	
Comparison with a new vehicle of a similar model	✓

Manufacturer-SoH	
Value of the residual capacity estimated and issued by the manufacturer	98%

*The accuracy of the assessment can be increased by a longer test duration.

All parameters at a glance