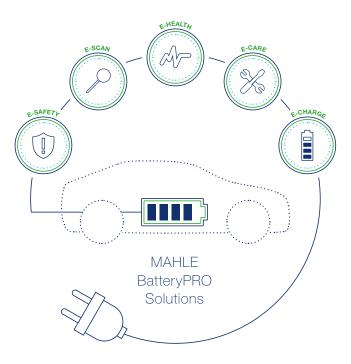
Future proof

BatteryPRO diagnostics and service solutions

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

E-HALTH The innovative way to evaluate the health of a battery.



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www.mahle-aftermarket.com www.mpulse.mahle.com 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

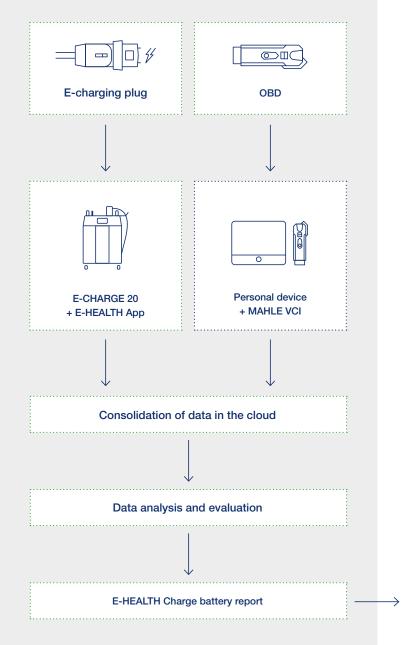
The E-HEALTH Charge battery diagnostic solution combines DC charging and diagnostics and provides reliable information about the state of health and performance of a high-voltage battery – based on their available residual capacity. It consists of the E-CHARGE 20 battery charger and the E-HEALTH App.

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 volytica diagnostics, classified in relation to already recorded batteries of the same type and compared with the originalcapacity of the vehicle model.

E-CHARGE 20 can be used flexibly in the workshop with the helpof 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 diagnostic
- Flexible working environment through mobile device
- Ready for use in maximum two minutes
- Can be used purely as a DC charger with 20kW

	Chargo	battery report	
	i Onarge i	ballery report	
Vehicle data Customer (vehicle owner)	145204asd	Manufacturer	XY
Official identification First registration Mileage	AA-X123E 09/22/2019 11,435 km	Model Engine identification FIN	XY XY ABC123 ABC 1234
Implementation Detai	ls		
Reviewer Location	MAHLE Stuttgart	Version loading profile OBD Availability	1 Yes
Test data			
iou uata			
Duration Start of SoC Indicator of available Estimation of the residual cap Performance indicato	acity released by the manu	Max. loaded performance End of SoC	14.4 kW 62% 95%
Duration Start of SoC Indicator of available Estimation of the residual cap	residual capacity addy released by the manu r de of a similar model	End of SoC	62%
Duration Start of SoC Indicator of available Estimation of the residual cap Performance indicato Comparison with a new velick Manufacturer-SoH	residual capacity addy released by the manu r de of a similar model	End of SoC	95%
Duration Start of SoC Indicator of available Estimation of the residual cap Performance indicato Comparison with a new velick Manufacturer-SoH	residual capacity addy released by the manu r de of a similar model	End of SoC	95% • 98%
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