

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-20260-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 01.10.2021

Date of issue: 01.10.2021

Holder of certificate:

combatec GmbH
Gerberstraße 18, 73650 Winterbach (Germany)

Tests in the fields:

Electrical Technology – Accumulators and Batteries

Within the scope of accreditation marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing procedures within the flexible scope of accreditation.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Field	Standard or test method (issue date)	Title of the standard or test method	Restrictions
Electrical Technology	ABNT NBR 15940:2019*	Lead-acid batteries for use in automotive vehicles of four or more wheels - Specification and test methods	Without 8.6 Vibration resistance test
	ABNT NBR 15941:2012*	Lead - acid batteries for motorcycles, quadricycle and tricycles - Specification and test methods	
	DIN EN 50342-1:2019*	Lead-acid starter batteries - Part 1: General requirements and methods of test <i>Blei-Akkumulatoren-Starterbatterien Teil 1: Allgemeine Anforderungen und Prüfungen; Deutsche Fassung EN 50342-1:2015 + A1:2018</i>	Without 6.10 Vibration resistance test
	DIN EN 50342-6:2019*	Lead-acid starter batteries - Part 6: Batteries for Micro-Cycle Applications <i>Blei-Akkumulatoren-Starterbatterien - Teil 6: Batterien für Mikrozyklen-Anwendungen; Deutsche Fassung EN 50342-6:2015 + A1:2018</i>	
	SAE J537:2016*	Storage Batteries	Without 3.8.3 Vibration Test
	SAE J240:2012*	Life Test for Automotive Storage Batteries	
	SAE J2185:2018*	Life Test for Heavy-Duty Storage Batteries (Lead Acid Type Only)	
	IEC 60095-1:2018*	Lead-acid starter batteries - Part 1: General requirements and methods of tes	Without 9.8 Vibration resistance test
	VW 75073:2020-03	Batteries for 12-V Electrical Systems	Without 9.1
	QEV 111 AFWM4T:2018-01	Technical specification AGM-battery 12 V	Without table 4: Test Programme mechanical tests

Abbreviations used:

ABNT	Brazilian Association of Technical Standards
DIN	German Institute for Standardisation (Deutsches Institut für Normung e.V.)
EN	European Standards
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
SAE	Society of Automotive Engineers
VW	Volkswagen Aktiengesellschaft

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