Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11140-33-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **19.10.2026**

Date of issue: 19.10.2026

This annex is part of the Accreditation Certificate D-PL-11140-33-00.

Holder of accreditation certificate:

Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V.
Hansastraße 27c, 80686 München

with the location

Fraunhofer-Institut für Solare Energiesysteme (ISE)
TestLab PV Modules (TLPV), CalLab PV Modules
Heidenhofstraße 5, 79110 Freiburg

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and they conform to the principles of DIN EN ISO 9001.

Tests in the fields of:

1 Photovoltaic 2
1.1 Type Testing 2

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.

Flexible Scope of Accreditation:

The testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS (flexibilization according to category A).

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

1 Photovoltaic

1.1 Type Testing

Scope Nr.	Kurztitel (Norm)	Titel Prüfverfahren *(Modifikation/Einschränkung)*	[Flex A] oder Ausgabestand
1.1.1	IEC 60891	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics	[Flex A]
1.1.2	IEC 60904-1	Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics	[Flex A]
1.1.3	IEC TS 60904-1-2	Photovoltaic devices - Part 1-2: Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices	[Flex A]
1.1.4	IEC 60904-8	Photovoltaic devices - Part 8: Measurement of spectral responsivity of a photovoltaic (PV) device	[Flex A]
1.1.5	IEC 61215-1	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements	[Flex A]
1.1.6	IEC 61215-1-1	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	[Flex A]
1.1.7	IEC 61215-1-2	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	[Flex A]
1.1.8	IEC 61215-1-3	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	[Flex A]
1.1.9	IEC 61215-1-4	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In, Ga)(S, Se)2 based (PV) modules	[Flex A]
1.1.10	IEC 61215-2	Terrestrial photovoltaic modules - Design qualification and type approval - Part 2: Test procedures	[Flex A]
1.1.11	IEC 61730-1	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction	[Flex A]

Scope Nr.	Kurztitel (Norm)	Titel Prüfverfahren *(Modifikation/Einschränkung)*	[Flex A] oder Ausgabestand
1.1.12	IEC 61730-2	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing *(ohne MST 23, MST 24)*	[Flex A]
1.1.13	IEC 61853-1	Photovoltaic (PV) module performance testing and energy rating - Part 1: Irradiance and temperature performance measurements and power rating	[Flex A]
1.1.14	IEC TS 62782	Photovoltaic (PV) modules - Cyclic (dynamic) mechanical load testing	[Flex A]
1.1.15	IEC TS 62804-1	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation - Part 1: Crystalline silicon	[Flex A]
1.1.16	UL 61215-1	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements	[Flex A]
1.1.17	UL 61215-1-1	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	[Flex A]
1.1.18	UL 61215-1-2	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	[Flex A]
1.1.19	UL 61215-1-3	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	[Flex A]
1.1.20	UL 61215-1-4	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In, Ga)(S, Se)2 based (PV) modules	[Flex A]
1.1.21	UL 61215-2	Terrestrial photovoltaic modules - Design qualification and type approval - Part 2: Test procedures	[Flex A]
1.1.22	UL 61730-1	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction	[Flex A]
1.1.23	UL 61730-2	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing *(ohne MST 23, MST 24)*	[Flex A]

Abbreviations used:

DIN Deutsches Institut für Normung e.V. – German institute for standardization
EN European Standard
IEC International Electrotechnical Commission
ISO International Organization for Standardization
UL Underwriter Laboratories

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