

Liste der Prüfverfahren im flexiblen Akkreditierungsbereich / List of testing methods in the flexible scope of accreditation

Verfahrensnummer / Accreditation number: D-PL-22040-01-00

Name der Konformitätsbewertungsstelle / Name of the conformity assessment body: **DAkKS**

Version vom* / Version from*: **18.12.2024**

*Bitte kontaktieren Sie uns, um den aktuellsten Stand dieser Liste zu erhalten / Please contact us for the latest version: solarenergy@de.tuv.com

Ergänzend zu den in der Akkreditierungsurkunde [D-PL-22040-01-00](#) genannten Verfahren befinden sich die auf den folgenden Seiten aufgeführten Verfahren und Ausgabestände innerhalb des Akkreditierungsbereichs. / In addition to the testing methods mentioned in the accreditation certificate [D-PL-22040-01-00](#), the testing methods and issue statuses listed on the following pages are within the scope of accreditation.

Prüfverfahren / Ausgabestand Testing method / Version	Titel der Norm oder des Hausverfahrens Title	Standort Location
Photovoltaic (PV)		
IEC 60891 2009-12	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics	Köln
IEC 60891:2021-10 + Cor. 1:2024-10	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics	Köln
IEC 60904-1 2006-09	Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics	Köln
IEC 60904-2 2023-06	Photovoltaic devices - Part 2: Requirements for photovoltaic reference devices	Köln
IEC 60904-3 2016-04	Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data	Köln
IEC 60904-4 2009-06	Photovoltaic devices - Part 4: Reference solar devices - Procedures for establishing calibration traceability	Köln
IEC 60904-4:2019-11 + Cor. 1:2020-09	Photovoltaic devices - Part 4: Reference solar devices - Procedures for establishing calibration traceability	Köln

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IEC 60904-5 Ed.2.1:2022-11 + AMD 1:2022-11	Photovoltaic devices - Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method	Köln
IEC 60904-7 2008-11	Photovoltaic devices - Part 7: Computation of the spectral mismatch correction for measurements of photovoltaic devices	Köln
IEC 60904-9 2007-10	Photovoltaic devices - Part 9: Solar simulator performance requirements	Köln
IEC 60904-10 2009-12	Photovoltaic devices - Part 10: Methods of linearity measurement	Köln
IEC 61215 2005-04	Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval	Köln
IEC 61215-1 2016-03	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements	Köln
IEC 61215-1 ED2:2021-02 + Cor. 1:2021-05	Terrestrial photovoltaic (PV) modules- Design qualification and type approval- Part 1: Test requirements	Köln
IEC 61215-1-1 2016-03	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Köln
IEC 61215-1-2 2016-12	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	Köln
IEC 61215-1-2 ED2.1:2022-03 + AMD 1:2022-03	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	Köln
IEC 61215-1-3 2016-12	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	Köln

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IEC 61215-1-3 ED2.1:2022-03 + AMD 1:2022-03	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	Köln
IEC 61215-1-4 2016-12	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 photovoltaic (PV) modules	Köln
IEC 61215-1-4 ED2.1:2022-03 + AMD 1:2022-03	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 photovoltaic (PV) modules	Köln
EN IEC 61215-1:2021-04 + AC:2021-06	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements	Köln
EN IEC 61215-1-1 2021-04	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) Moduleso	Köln
EN IEC 61215-1-2:2021-03 + A1:2022-05	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	Köln
EN IEC 61215-1-3:2021-04 + A1:2022-05	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	Köln

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EN IEC 61215-1-4:2021-04 + A1:2022-05	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 photovoltaic (PV) modules	Köln
EN 61215-2 2017-02	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures	Köln
UL 61730-1 2017-12	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction	Köln
IEC 61730-1 2016-08	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction	Köln
IEC 61730-2:2023-09 + Cor.1:2024-10	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing	Köln
IEC 61730-2 2016-08	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing	Köln
IEC 61730-2 2004-10 +AMD1:2011	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing	Köln
UL 61730-2 2017-12	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing	Köln
UL 61730-2 2023-11	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing	Köln
IEC 62093 2005-03	Balance-of-system components for photovoltaic systems – Design qualification natural environments	Köln
IEC 62759-1 2015-06	Photovoltaic (PV) modules - Transportation testing - Part 1: Transportation and shipping of module package units	Köln
IEC TS 63140 ED1 (RVDTs) 2020-10	Photovoltaic (PV) modules - Partial shade endurance testing for monolithically integrated products	Köln

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IEC 61701 2011-12	Salt mist corrosion testing of photovoltaic (PV) modules	Köln
IEC 62817 Ed.1.1:2017-07 + AMD 1:2017-07	Photovoltaic systems – Design qualification of solar trackers	Köln
EN 50380 2003-03	Datasheet and nameplate information for photovoltaic modules	Köln
EN 14437 2022-11	Determination of the uplift resistance of installed clay or concrete tiles for roofing - Roof system test method	Köln
IEC TS 62804-2 2017-01 ADTS Ed1	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation – Part 2: Thin-film	Köln
IEC TS 62915 2018-05	Photovoltaic (PV) modules - Type approval, design and safety qualification – Retesting	Köln
IEC TS 62915:2023-09 + Cor. 2024-08	Photovoltaic (PV) modules - Type approval, design and safety qualification – Retesting	Köln
Solar thermal (ST)		
EN 12975-1 2006-03 +A1:2010	Thermal solar systems and components – Solar collectors Part 1: General requirements	Köln
EN 12976-1 2006-01	Thermal solar systems and components - Factory made systems - Part 1: General requirements	Köln
EN 12976-1 2021-01	Thermal solar systems and components - Factory made systems - Part 1: General requirements	Köln
EN 12976-2 2006-01	Thermal solar systems and components - Factory made systems - Part 2: Test methods	Köln
EN 12977-1 2018-04	Thermal solar systems and components - Custom built systems - Part 1: General requirements for solar water heaters and combisystems	Köln
EN 12977-3 2012-04	Thermal solar systems and components - Custom built systems - Part 3: Performance test methods for solar water heater stores	Köln
EN 15332 2019-10	Heating Boilers - Energy assessment of hot water storage systems	Köln

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EN 12897 + A1 2020-02	Water supply - Specification for indirectly heated unvented (closed) storage water heaters	Köln
EN ISO 9806 2013-11	Solar energy - Solar thermal collectors - Test methods	Köln
Environment		
IEC 60068-2-5 2010-04	Environmental testing - Part 2-5: Tests - Test Sa: Simulated solar radiation at ground level and guidance for solar radiation testing	Köln