

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

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

with its test laboratories:

Fraunhofer-Institut für Solare Energiesysteme (ISE)
TestLab PV Modules (TLPV)
Heidenhofstraße 2, 79110 Freiburg

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the
following fields:

Performance test of photovoltaic modules

The accreditation certificate shall only apply in connection with the notice of accreditation of 16.03.2017 with the accreditation number D-PL-11140-03 and is valid until 15.03.2022. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-PL-11140-03-02**

Berlin,
28.03.2017

Dr. Heike Manke
Head of Division

Translation issued:
09.04.2018


Head of Division

Deutsche Akkreditierungsstelle GmbH

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The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL11140-03-02 according to DIN EN ISO/IEC 17025:2005

Period of validity: 16.03.2017 to 15.03.2022

Date of issue: 28.03.2017

Holder of certificate:

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

with its test laboratories:

**Fraunhofer-Institut für Solare Energiesysteme (ISE)
TestLab PV Modules (TLPV)
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Tests in the fields:

Performance test of photovoltaic modules

Abbreviations used: see last page

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 methods within the flexible scope of accreditation.

Annex to the accreditation certificate D-PL11140-03-02

IEC 61215-1 Ed. 1 2016	Crystalline terrestrial photovoltaic (PV) modules - Design qualification and type approval Part 1: Test requirements
IEC 61215 Ed.2 2005	Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval
IEC 61215-1-1 Ed. 1 2016	Crystalline terrestrial photovoltaic modules - Design qualification and type approval Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
IEC 61215-2 Ed. 1 2016	Crystalline terrestrial photovoltaic modules - Design qualification and type approval - Part 2: Test procedures
IEC 61646 Ed.2 2008	Thin-Film terrestrial photovoltaic (PV) modules - Design qualification and type approval
IEC 61730-1:2004 +AMD1:2001 +AMD2:2013	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
IEC 61730-2:2004 +AMD1:2011	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
IEC TS 62782 2016	Photovoltaic (PV) modules - Cyclic (dynamic) mechanical load testing
IEC TS 62804-1 2015	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation - Part 1: Crystalline silicon

Abbreviations used:

IEC International Electrotechnical Commission