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CAN/CSA-IEC 61215-1-1:18
(IEC 61215-1-1:2016, IDT)
National Standard of Canada
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CAN/CSA-IEC 61215-1-1:18
Terrestrial photovoltaic (PV) modules — Design qualification and type approval — Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
(IEC 61215-1-1:2016, IDT)

CAN/CSA-IEC 61215-1-1:18
Modules photovoltaïques (PV) pour applications terrestres — Qualification de la conception et homologation — Partie 1-1 : Exigences particulières d'essai des modules photovoltaïques (PV) au silicium cristallin
(IEC 61215-1-1:2016, IDT)

IEC

Standards Council of Canada
Conseil canadien des normes

Standards Update Service

CAN/CSA-IEC 61215-1-1:18
September 2018

Title: *Terrestrial photovoltaic (PV) modules — Design qualification and type approval — Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules*

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IEC 61215-1-1

Edition 1.0 2016-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 27.160

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TERRESTRIAL PHOTOVOLTAIC (PV) MODULES – DESIGN QUALIFICATION AND TYPE APPROVAL –

Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules

1 Scope and object

This part of IEC 61215 lays down IEC requirements for the design qualification and type approval of terrestrial photovoltaic modules suitable for long-term operation in general open air climates, as defined in IEC 60721-2-1. This standard is intended to apply to all crystalline silicon terrestrial flat plate modules.

This standard does not apply to modules used with concentrated sunlight although it may be utilized for low concentrator modules (1 to 3 suns). For low concentration modules, all tests are performed using the current, voltage and power levels expected at the design concentration.

The object of this test sequence is to determine the electrical and thermal characteristics of the module and to show, as far as possible within reasonable constraints of cost and time, that the module is capable of withstanding prolonged exposure in climates described in the scope. The actual lifetime expectancy of modules so qualified will depend on their design, their environment and the conditions under which they are operated.

This standard defines PV technology dependent modifications to the testing procedures and requirements per IEC 61215-1:2016 and IEC 61215-2:2016.

2 Normative references

The normative references of IEC 61215-1:2016 and IEC 61215-2:2016 are applicable without modifications.

3 Terms and definitions

This clause of IEC 61215-1:2016 is applicable without modifications.

4 Test samples

This clause of IEC 61215-1:2016 is applicable without modifications.

5 Marking and documentation

This clause of IEC 61215-1:2016 is applicable without modifications.

6 Testing

This clause of IEC 61215-1:2016 is applicable without modifications.