



Confirmation of Test Result

IEC TS 62804-1:2015

Photovoltaic (PV) Modules - Test methods for the detection of potential-induced degradation – Part1: Crystalline silicon

Ref.: TRPVM-2019-40636-1

Applicant: aleo solar GmbH, Marius-Eriksen-Straße 1, 17291 Prenzlau, Germany

Manufacturer: aleo solar GmbH, Marius-Eriksen-Straße 1, 17291 Prenzlau, Germany

Product: Crystalline silicon Photovoltaic (PV)-Modules

Standard: IEC TS 62804-1:2015

Type: Tested type: X59L315

The module X59L315 is tested as representative for:

S19YXXXZ, S79YXXXZ, S59YXXXZ, P19YXXXZ
S25YXXXZ, S75YXXXZ, P25YXXXZ, P75YXXXZ
X19YXXXZ, X59YXXXZ, X79YXXXZ
X25YXXXZ, X55YXXXZ, X75YXXXZ
S23YXXXZ, S63YXXXZ, S83YXXXZ, P23YXXXZ
S21YXXXZ, S61YXXXZ, P21YXXXZ, S81YXXXZ
X23YXXXZ, X63YXXXZ, X83YXXXZ
X21YXXXZ, X61YXXXZ, X81YXXXZ

XXX im Typ ersetzt die Modul-Bemessungsleistung (Pmax)
"Y" in der Typenbezeichnung ersetzt ".", "U", "G", "H", "J", "K", "L",
"E", oder "T" und kennzeichnet essenzielle elektrische
Eigenschaften und/oder unterschiedliche
Verkaufsgebiete.

"Z" in der Typenbezeichnung ersetzt #.#, #G#, #T# oder eine
"Leerstelle" und kennzeichnet unterschiedliche mechanische
Eigenschaften.

Optional: - Anhang "sol" für Module mit Solrif Rahmen (Horizontal
Montage).

Anhang "ulr" für Module mit unterschiedlichen Verkaufsgebieten.

XXX in the type replaces the rated output of the Module (Pmax)

"Y" in the model designation represents ".", "U", "G", "H", "J", "K",
"L", "E" or "T" denoting essential electrical properties and/or
different marketing territories.

"Z" in the model designation represents #.#, #G#, #T# or "a blank"
denoting different mechanical properties.

Optional: - Suffix "sol" denoting modules with Solrif Frame
(horizontal mounting).

Suffix "ulr" denoting different marketing territories.



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Test conditions	Testing time:	96 h
	Chamber temperature:	60 °C
	Relative Humidity:	85 %
	Potential to ground:	1000 V
Pass criteria	Power degradation:	< 5 %

Summary of test results:

Maximum power degradation:	required	max. 5 %
	measured	max. 0,68 %

The measured degradation is below the allowed degradation.

Visual inspection: No findings

The complete test results and the relevant bill of materials are given in Test Report TRPVM-2019-40636-1

VDE Renewables GmbH

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