



# IEC TS 62782:2016

Photovoltaic (PV) modules - Cyclic (dynamic) mechanical load testing  
Confirmation of Test Results

**Ref.:** 10002/2020-40049

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

**Product:** Crystalline Silicon Photovoltaic (PV)-Modules

**Types:**

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

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.



**Manufacturer:** aleo solar GmbH

**Standard:** IEC TS 62782:2016

**Test conditions:**

Mechanical load cycles	: 1000
Maximum pressure	: $\pm 1000$ Pa
Module Temperature	: 25 °C ( $\pm 2$ °C)

**Pass criteria:**

Power degradation	: < 5 %
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**Summary of test results:**


**Maximum power degradation:** Allowed : max. 5 %  
Measured : max. 0,12 %


The measured degradation is below the allowed degradation.

**Visual inspection:** No major findings

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2020-40049-1

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