

solar module aleo S_18

The aleo S_18 solar module is characterized by the first-class processing of high-grade components. 60 multi-crystalline silicon cells (6" + | 156 mm x 156 mm) in each module ensure excellent performance, even with limited solar irradiation, while a very low output tolerance of + / - 3 % meets the very highest standards.

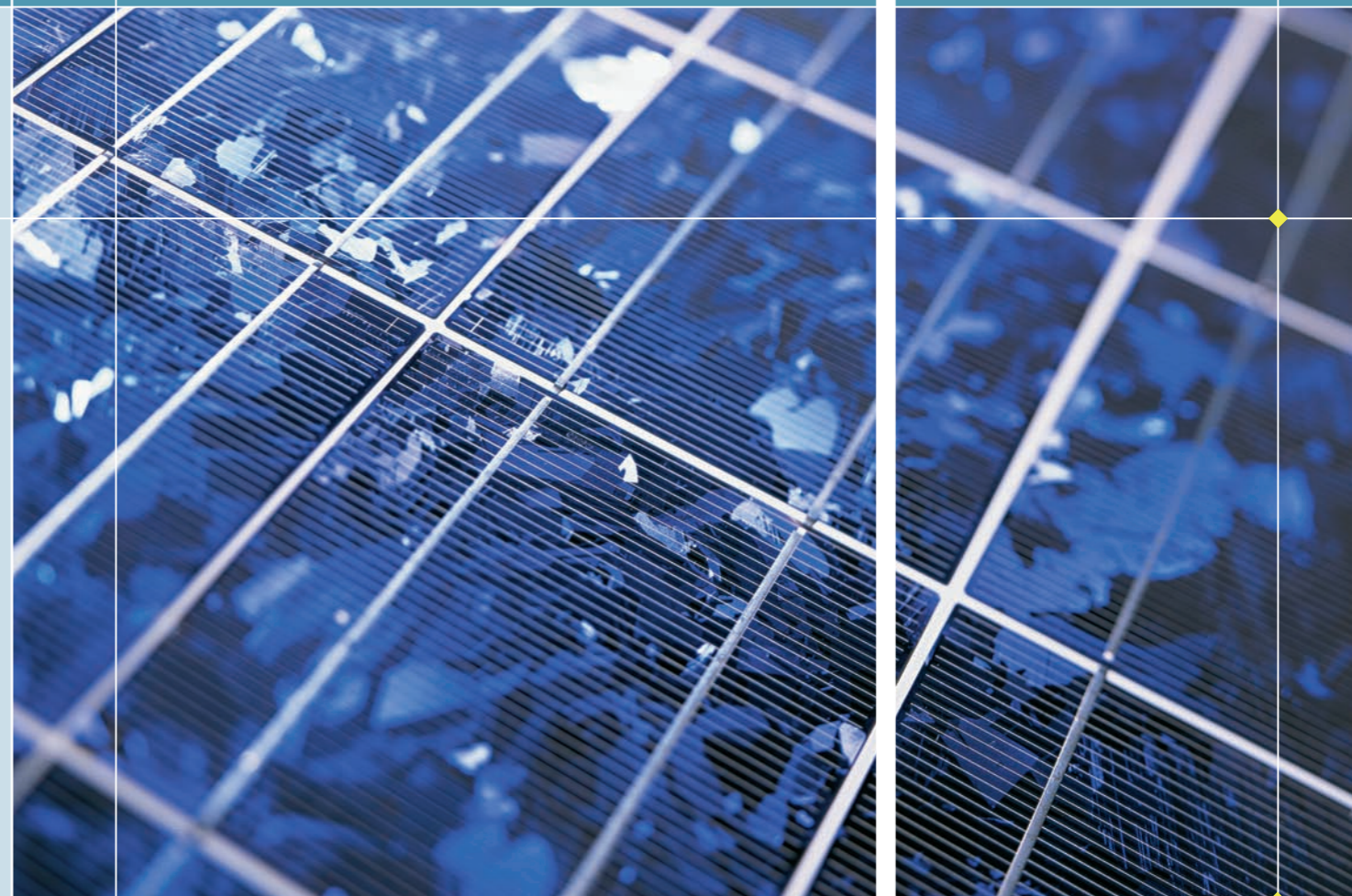
The solar cells are embedded in EVA plastic (ethylene-vinyl acetate), which is resistant to UV radiation. The frame consists of a torsionally rigid, corrosion-resistant aluminium alloy, giving the module stability and ensuring it can be mounted in a variety of configurations.

The front panel of the module consists of thermally prestressed solar glass. As well as guaranteeing high light permeability, this glass also protects the solar cells against external weathering influences such as hail, snow and ice. A Tedlar® polyester film on the rear guarantees long service life.

The socket outlet on the rear is fitted with bypass diodes to prevent individual solar cells from overheating (hot-spot-effect). Several series connected solar modules can be easily cabled by means of preassembled solar cables and Tyco® connectors.

aleo solar modules are certified to apply European and international requirements on the IEC 61215 standard and satisfy the criteria for protection class II. The performance guarantee is 10 years to 90 % and 20 years to 80 % of reported minimum output. aleo offers a 2 year product guarantee against production and material defects.

Output classes 210 W - 230 W



solar module aleo S_18

aleo

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→ solar module aleo s_18 6"-Plus

Specifications

Description

Data at 1.000 W/m² (STC)*

Rated output

Rated voltage

Short-circuit voltage

Open circuit voltage

Max. system voltage

Data at 800 W/m² (NOCT)**

Output

Voltage

Short-circuit current

Open circuit voltage

Output Tolerance

output class 210 W

aleo S_18|210

P_{MPP} 210 W

U_{MPP} 28,4 V

I_{SC} 8,00 A

U_{OC} 36,2 V

1.000 V DC

P_{MPP} 154 W

U_{MPP} 26,0 V

I_{SC} 6,50 A

U_{OC} 33,1 V

+/- 3 %

output class 215 W

aleo S_18|215

P_{MPP} 215 W

U_{MPP} 28,6 V

I_{SC} 8,11 A

U_{OC} 36,3 V

1.000 V DC

P_{MPP} 158 W

U_{MPP} 26,3 V

I_{SC} 6,55 A

U_{OC} 33,2 V

+/- 3 %

output class 220 W

aleo S_18 | 220

P_{MPP} 220 W

U_{MPP} 28,8 V

I_{SC} 8,22 A

U_{OC} 36,4 V

1.000 V DC

P_{MPP} 162 W

U_{MPP} 26,5 V

I_{SC} 6,60 A

U_{OC} 33,4 V

+/- 3 %

output class 225 W

aleo S_18 | 225

P_{MPP} 225 W

U_{MPP} 29,0 V

I_{SC} 8,33 A

U_{OC} 36,5 V

1.000 V DC

P_{MPP} 166 W

U_{MPP} 26,8 V

I_{SC} 6,65 A

U_{OC} 33,5 V

+/- 3 %

output class 230 W

aleo S_18 | 230

P_{MPP} 230 W

U_{MPP} 29,2 V

I_{SC} 8,44 A

U_{OC} 36,6 V

1.000 V DC

P_{MPP} 170 W

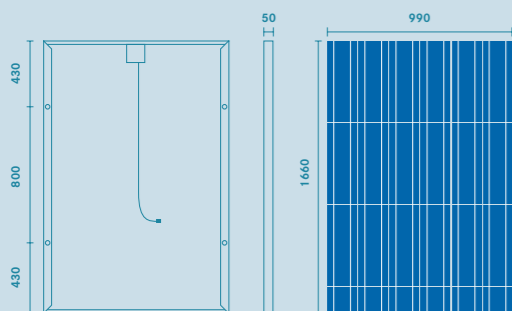
U_{MPP} 27,0 V

I_{SC} 6,7 A

U_{OC} 33,6 V

+/- 3 %

Dimensions



Basic and thermal parameters

Temperature coefficients

$\alpha (I_{SC})$ +0,08 %/K

$\beta (U_{OC})$ -0,33 %/K

Certification

IEC 61215:2005 und Schutzklasse II

Office

VDE / TÜV

Module dimensions

1660 x 990 x 50 mm

Weight

21 kg

Reduction of efficiency

6 %

from 1.000 W/m² to 200 W/m²

Reverse current load

I_R 15 A

NOCT

47°

* Electrical values under standard test conditions (STC): 1000 W/m²; 25°C; AM 1,5

** Electrical values under nominal operation cell temperature: 800 W/m², NOCT, AM 1,5