

## aleo 150 solar module

Output classes 150 | 155 | 160

5-inch cells






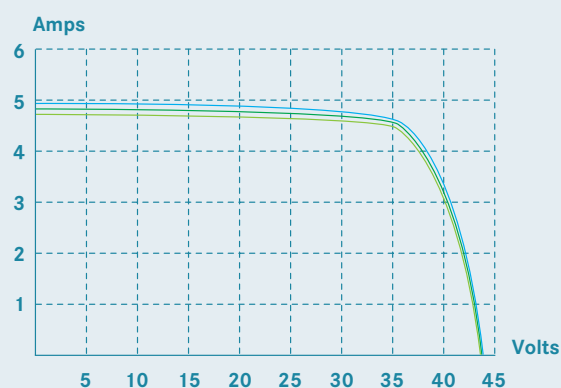
The aleo 150 solar module is characterized by the first-class processing of high-grade components. 72 multi-crystalline silicon cells (5 inch) in each module ensure excellent performance, even with limited solar irradiation, while a very low output tolerance of  $\pm 3\%$  meets the very highest standards.

- 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 Multi-Contact® connectors.
- aleo solar modules are certified to applicable European and international requirements of 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.

For further information and if you have any questions about the guarantee conditions, please contact your specialist dealer or call our service team under: **T +49 (0) 441 219 88-50**

### I-U characteristic (STC) for 150–160 Watt

Output class	150 W	
Output class	155 W	
Output class	160 W	



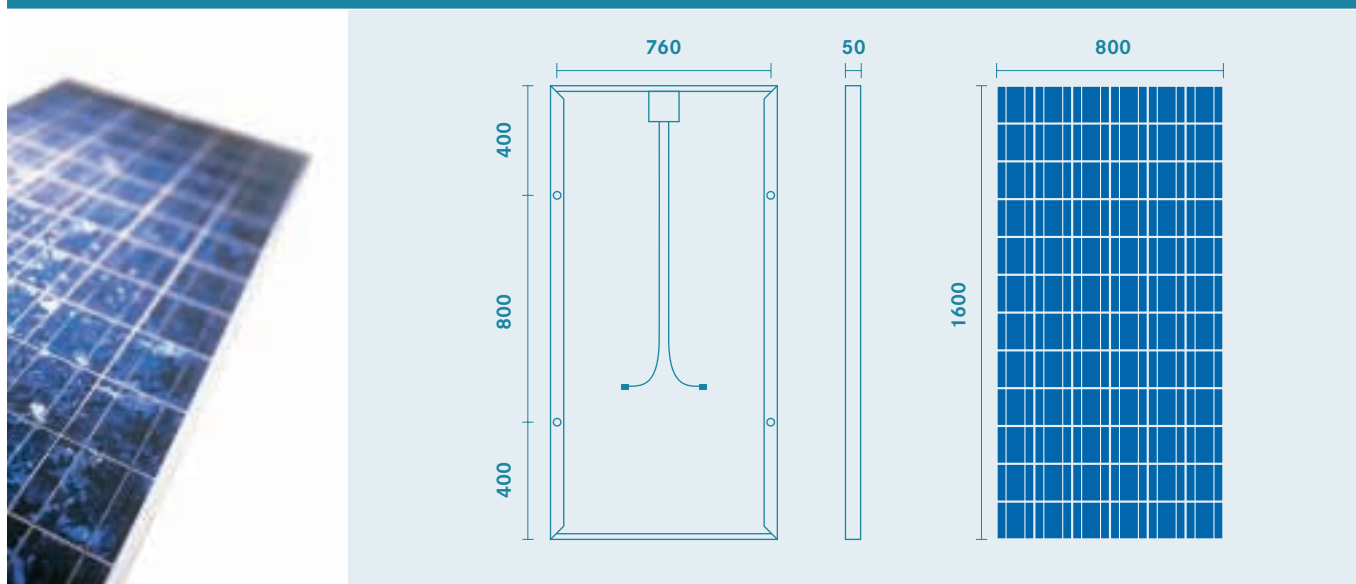
# aleo 150 solar module

5-inch cells

Specifications*	Output class 150 W		Output class 155 W		Output class 160 W	
Description	aleo 150 S		aleo 150 M		aleo 150 L	
Rated output	$P_{MPP}$	150 W <sub>p</sub>	$P_{MPP}$	155 W <sub>p</sub>	$P_{MPP}$	160 W <sub>p</sub>
Output tolerance	+/-3%		+/-3%		+/-3%	
Rated current	$I_{MPP}$	4,25 A	$I_{MPP}$	4,4 A	$I_{MPP}$	4,5 A
Rated voltage	$U_{MPP}$	35,4 V	$U_{MPP}$	35,4 V	$U_{MPP}$	35,5 V
Short-circuit current	$I_{SC}$	4,7 A	$I_{SC}$	4,85 A	$I_{SC}$	4,9 A
No-load current	$U_{OC}$	43,4 V	$U_{OC}$	43,5 V	$U_{OC}$	43,6 V
Max. system voltage	750,0 V		750,0 V		750,0 V	
Temperature coefficients	$\alpha (I_{SC})$	+0,05%/K	$\alpha (I_{SC})$	+0,05%/K	$\alpha (I_{SC})$	+0,05%/K
	$\beta (U_{OC})$	-0,33%/K	$\beta (U_{OC})$	-0,33%/K	$\beta (U_{OC})$	-0,33%/K
	$\gamma (P_{MPP})$	-0,50%/K	$\gamma (P_{MPP})$	-0,50%/K	$\gamma (P_{MPP})$	-0,50%/K
Certification	IEC 61215 and protection class II		IEC 61215 and protection class II		IEC 61215 and protection class II	
TÜV office	Rheinland/Berlin-Brandenburg		Rheinland/Berlin-Brandenburg		Rheinland/Berlin-Brandenburg	
Module dimensions	1600 x 800 x 50 mm		1600 x 800 x 50 mm		1600 x 800 x 50 mm	
Weight	16 kg		16 kg		16 kg	

\* Electrical values under standard test conditions (STC): 1000 W/m<sup>2</sup>; 25°C; AM 1,5

## Dimensions



TÜV Rheinland/Berlin-Brandenburg 