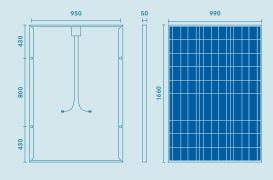


aleo

solar module aleo s_18 6 inch+ poly

Specifications	Output cla	ss 210 W	Output cla	ss 215 W
Description	aleo S_18 2	210	aleo S_18 2	215
Data at 1,000 W/m ² (STC) ¹				
Rated output Rated current Rated voltage Short-circuit current Open-circuit voltage Area-to-power ratio Efficiency ³	$P_{_{MPP}}$ $I_{_{MPP}}$ $U_{_{MPP}}$ $I_{_{SC}}$ $U_{_{OC}}$ $A_{_{P}}$ $\eta(eta)$	210 W 7.41 A 28.4 V 8.03 A 35.9 V 7.83 m ² /kWp 12.8%	$egin{aligned} & egin{aligned} & egi$	215 W 7.53 A 28.6 V 8.13 A 36.1 V 7.64 m ² /kWp 13.1%
Data at 800 W/m² (NOCT)² Output Current Voltage Short-circuit current Open-circuit voltage Efficiency³	$P_{_{MPP}}$ $I_{_{MPP}}$ $U_{_{MPP}}$ $I_{_{SC}}$ $U_{_{OC}}$ $\eta(eta)$	151 W 5.74 A 26.3 V 6.42 A 33.0 V 11.5%	P_{MPP} I_{MPP} U_{MPP} I_{SC} U_{OC} $\eta(eta)$	155 W 5.80 A 26.6 V 6.47 A 33.2 V 11.8%
Classification range (positive classification) Measurement accuracy P _{MPP} Max. system voltage Permissible module load ⁴	1 Charleston	-0 W/+4.99 W -3%/+3% 1,000 V DC 5,400 Pa es under standard test conditions (ST	20) 4 000 W/m ² 25 °C 4444	-0 W/+4.99 W -3%/+3% 1,000 V DC 5,400 Pa

Dimensions [mm]



Additional information

Temperature coefficients	α (I _{SC}) β (U _{OC}) γ (P _{MPP})
Certification	IEC/EN 61215, IEC/EN 61730 and protection
Testing organization	VDE
Module dimensions	1660 x 990 x 50 mm
Weight	21 kg

¹ Electrical values under standard test conditions (STC): 1,000 W/m²; 25°C; AM 1.5
2 Electrical values under nominal operating cell temperature (NOCT): 800 W/m²; AM 1.5
3 For the module surface as a whole (1.6434 m²)
4 In accordance with IEC 61215, 10.16 "Extended load test", installation in accordance with the manual Datasheet tolerances, except for rated output: +/-10%

Output class 220 W	Output class 225 W	Output class 230 W	
aleo S_18 220	aleo S_18 225	aleo S_18 230	
P_{MPP} 220 W I_{MPP} 7.65 A U_{MPP} 28.7 V I_{SC} 8.24 A U_{OC} 36.3 V A_{P} 7.47 m²/kWp $\eta(eta)$ 13.4%	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	P_{MPP} 230 W I_{MPP} 7.90 A U_{MPP} 29.1 V I_{SC} 8.44 A U_{OC} 36.6 V A_{P} 7.15 m²/kWp $\eta(eta)$ 14.0%	
P _{MPP} 158 W I _{MPP} 5.86 A U _{MPP} 27.0 V I _{SC} 6.52 A U _{OC} 33.3 V η(eta) 12.0%	P _{MPP} 162 W I _{MPP} 5.93 A U _{MPP} 27.3 V I _{SC} 6.57 A U _{OC} 33.5 V η(eta) 12.3%	P _{MPP} 165 W I _{MPP} 5.99 A U _{MPP} 27.6 V I _{SC} 6.62 A U _{OC} 33.7 V η(eta) 12.6%	
-0 W/+4.99 W -3%/+3% 1,000 V DC 5,400 Pa	-0 W/+4.99 W -3%/+3% 1,000 V DC 5,400 Pa	-0 W/+4.99 W -3%/+3% 1,000 V DC 5,400 Pa	

+0.04%/K	
-0.34%/K	

-0.48%/K

class II

NOCT Power guarantee

Reduction in efficiency

From 1,000 W/m² to 200 W/m²

Reverse current load

< 6%

15 A

48°C

10 years: 90%, 25 years: 80%

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solar module aleo s_18 The aleo S_18 solar module is characterized by the state-of-the-art processing of high grade components. 60 polycrystalline silicon cells (6 inch+ | 156 mm x 156 mm) in each module ensure excellent performance, even with limited solar irradiation. A tight output tolerance of -3 $\%/+3\,\%$ and purely positive module classification (-0 W/+4.99 W) fulfil the highest standards. The solar cells are embedded in EVA (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 allowing it to 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 transmittance, the glass also protects the solar cells from external weathering influences such as hail, snow and ice. A polymer backsheet guarantees good insulation and long service life. The junction box on the back is fitted with bypass diodes to prevent individual solar cells from overheating (hot-spot effect). Several solar modules can easily be connected in series by means of two pre-fitted 1 m solar cables with solar plugs. aleo solar modules are certified according to the European and international IEC/EN 61215 and IEC/EN 61730 standards and fulfil the criteria for protection class II. The power guarantee is at least 90% up to 10 years, and at least 80% up to 25 years, subject to the terms and conditions of the limited warranty. Please contact your qualified aleo dealer: www.aleo-solar.com