

Power classes

235 | 240 | 245 W

Good Reasons

- 10-year product guarantee
- 25-year power guarantee
- Positive power classification
- Best components according to German quality standards
- Professional customer service
- Certified according to IEC/EN 61215 (ed. 2)
- Certified according to IEC/EN 61730, protection class II
- Superior black aesthetic design

**aleo**

aleo s_79

Electrical data (STC)			S79.235	S79.240	S79.245
Rated power	P_{MPP}	[W]	235	240	245
Rated voltage	U_{MPP}	[V]	29.4	29.8	30.2
Rated current	I_{MPP}	[A]	8.00	8.05	8.10
Open-circuit voltage	U_{OC}	[V]	36.4	36.8	37.2
Short-circuit current	I_{SC}	[A]	8.53	8.56	8.60
Efficiency	η	[%]	14.3	14.6	14.9
Area-to-power ratio	A_p	[m ² /kW _p]	7.00	6.85	6.70

Electrical values measured under standard test conditions (STC): 1000 W/m²; 25°C; AM 1.5

Electrical data (NOCT)			S79.235	S79.240	S79.245
Power	P_{MPP}	[W]	166	169	172
Voltage	U_{MPP}	[V]	26.3	26.7	27.1
Current	I_{MPP}	[A]	6.39	6.41	6.45
Open-circuit voltage	U_{OC}	[V]	32.8	33.1	33.5
Short-circuit current	I_{SC}	[A]	6.88	6.91	6.93
Efficiency	η	[%]	12.6	12.9	13.1

Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind speed 1 m/s
NOCT: 49.6°C (nominal operating cell temperature)

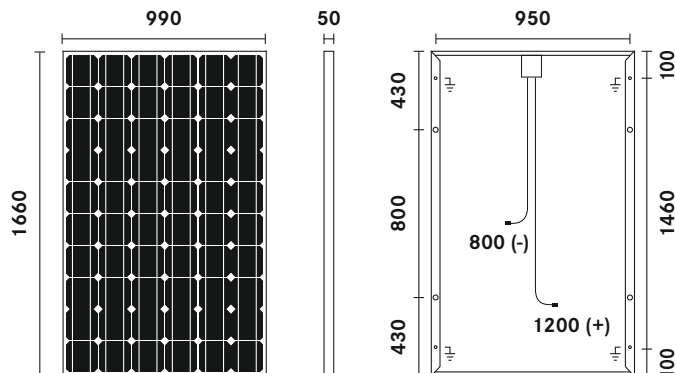
Additional electrical data		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%]	< 5
Classification range (positive classification)	[W]	-0/+4.99
Measurement accuracy of P_{MPP} under STC	[%]	-3/+3
Accuracy of other electrical values	[%]	-10/+10

Loads		
Mechanical load	[Pa]	5400
Maximum system voltage	[V _{DC}]	1000
Reverse current load	I_R [A]	15

Mechanical load acc. to IEC/EN 61215

Temperature coefficients			
1 st temperature coefficient	$\alpha (I_{SC})$	[%/K]	+0.03
2 nd temperature coefficient	$\beta (U_{OC})$	[%/K]	-0.34
3 rd temperature coefficient	$\gamma (P_{MPP})$	[%/K]	-0.48

Dimensions [mm]



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Efficiency relating to gross module area

Basic data		
Length x width x height	[mm ³]	1660 x 990 x 50
Weight	[kg]	21
Number of cells		60
Cell size	[mm ²]	156 x 156
Cell material		Monocrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer
Frame material		Al alloy
Cable length	[mm]	1200 (+), 800 (-)
Connectors		MC3 class
IP class		IP65
Bypass diodes		3

Detailed information regarding our products, warranties and certificates can be requested from us at any time. This information is also available online at www.aleo-solar.com.

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