

X83 Anti-glare

315 W

 Made in
GERMANY



GERMAN ENGINEERING AND MANUFACTURING

Incorporated in 2001, aleo is recognized as one of the most trustworthy manufacturers of solar panels. We produce all our products in our certified production plant in Prenzlau, Germany.

THE BEST GUARANTEE PACKAGE

 25 Years Product Guarantee

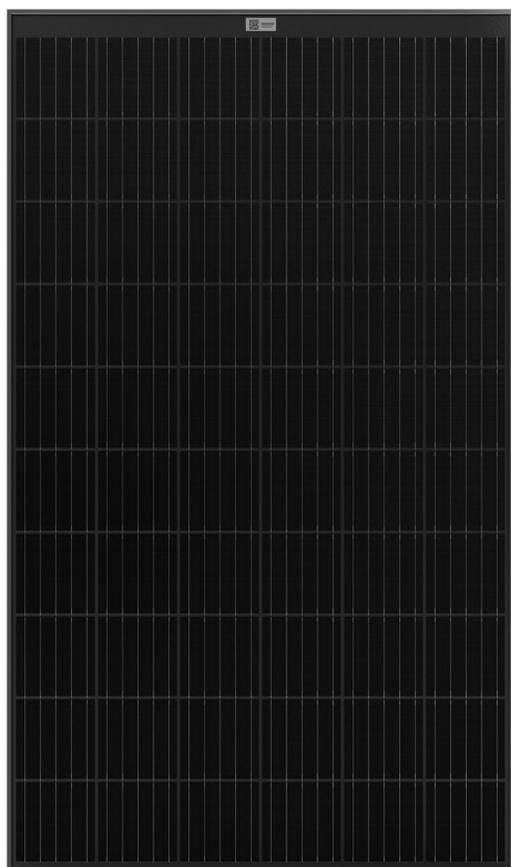
 25 Years linear Performance Guarantee

98% of nominal power guaranteed in the first two years

ANTI-GLARE GLASS

+ Perfect for applications near airports or freeways

- + Special glass structure and black design for minimal reflection
- + Luminance of the frontside under 18,000 cd/m²
- + Reduction of glare by a factor of 8 compared to modules with standard AR glass
- + Covered by independent BRDF measurements
- + Anti-Reflex coating ensures optimal self-cleaning and higher yield



aleo solar module X83 HE anti-glare

ELECTRICAL DATA (STC)		X83L315
Rated power	P_{MPP} [W]	315
Rated voltage	V_{MPP} [V]	32.4
Rated current	I_{MPP} [A]	9.73
Open-circuit voltage	V_{OC} [V]	40.1
Short-circuit current	I_{SC} [A]	10.23
Efficiency	η [%]	17.9

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

ELECTRICAL DATA (NMOT)		X83L315
Power	P_{MPP} [W]	233
Voltage	V_{MPP} [V]	30.0
Current	I_{MPP} [A]	7.76
Open-circuit voltage	V_{OC} [V]	37.5
Short-circuit current	I_{SC} [A]	8.24
Efficiency	η [%]	16.6

Electrical values measured under nominal module operating temperature: 800 W/m²; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT : 45.5°C

ELECTRICAL DATA (LOW IRRADIANCE)		X83L315
Power	P_{MPP} [W]	61

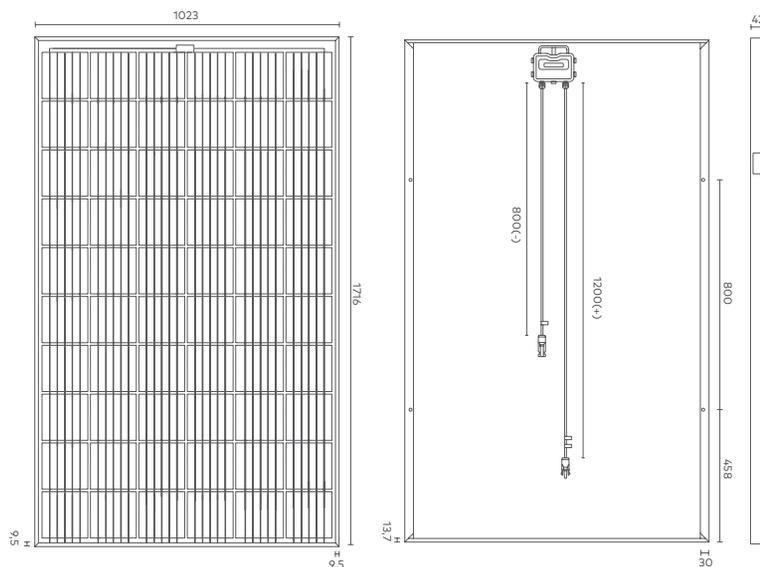
Electrical values measured under: 200 W/m²; 25°C; AM 1.5

TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.05
Temperature coefficient V_{OC}	$\beta (V_{OC})$	[%/K]	-0.29
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.40

BASIC DATA JUNCTION BOX	
Length x width x height	[mm] 148 x 123 x 27
IP class	IP67
Cable length	[mm] 1200 (+), 800 (-)
Connectors	Genuine MC4
Bypass diodes	3

CLASSIFICATION		X83L315
Classification range (positive classification)	[W]	0/+4.99

DIMENSIONS [mm]



BASIC MODULE DATA	
Length x width x height	[mm] 1716 x 1023 x 42
Weight	[kg] 19.5
Number of cells	60
Cell size	[mm] 158.75 x 158.75
Cell material	Monocrystalline Si, PERC
Number of bus bars	5

Front sheet	3.2 mm Solar glass (TSG), structured, minimal reflection
Back sheet	Polymer sheet, black
Frame material	Al alloy, black

CERTIFICATIONS AND GUARANTEES	
Product Guarantee	25 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	IEC 61215, IEC 61730 IEC 62804 – PID Resistance

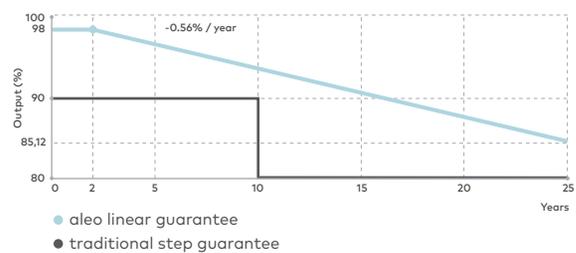
LOADS

Max. module pressure load (Testload)	[Pa]	8000 ¹
Max. module pressure load (Designload) ²	[Pa]	5333 ¹
Max. module suction load (Testload)	[Pa]	5400 ¹
Max. module suction load (Designload) ²	[Pa]	3600 ¹
Max. system voltage	[V _{DC}]	1000
Reverse current load	I_R [A]	20

Mechanical load acc. to IEC/EN 61215:2016
¹ Please observe the mounting conditions in the installation manual
² Testload/ Safety factor 1.5 = Designload

Measurement tolerance of P_{MPP} under STC -3/+3% |
 Accuracy of other electrical values -10/+10%
 Efficiency relating to gross module area

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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