

X55

245 - 255W



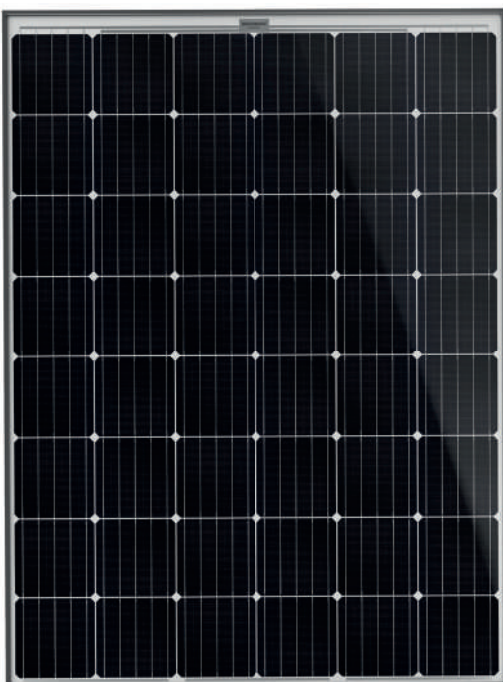
QUALITY SIGNED AND SEALED



8000 Pa PRESSURE LOAD

**25 YEAR PRODUCT GUARANTEE
OPTIONAL AVAILABLE**

**98% OF NOMINAL POWER GUARANTEED
IN THE FIRST TWO YEARS**



PID FREE

PID tested with excellent results under the harshest conditions



**15 YEARS PRODUCT GUARANTEE
UPGRADEABLE TO 25 YEARS AS A
PREMIUM OPTION**



**25 YEARS LINEAR
PERFORMANCE WARRANTY**



CRAFTED WITH PASSION



CONSTANTLY HIGH CELL QUALITY
through strict quality examinations
by highresolution electroluminescence
measurements.
100% of diodes are tested.

aleo solar module X55 HE

ELECTRICAL DATA (STC)		X55L245	X55L250	X55L255	BASIC MODULE DATA	
Rated power	P_{MPP} [W]	245	250	255	Length x width x height	[mm] 1345 x 990 x 42
Rated voltage	V_{MPP} [V]	26.1	26.4	26.7	Weight	[kg] 15
Rated current	I_{MPP} [A]	9.38	9.47	9.56	Number of cells	48
Open-circuit voltage	V_{OC} [V]	31.7	31.9	32.0	Cell size	[mm] 156.75 x 156.75
Short-circuit current	I_{SC} [A]	9.89	9.98	10.06	Cell material	Monocrystalline Si, PERC
Efficiency	η [%]	18.4	18.8	19.2	Number of bus bars	5

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

ELECTRICAL DATA (NMOT)		X55L245	X55L250	X55L255
Power	P_{MPP} [W]	181	185	189
Voltage	V_{MPP} [V]	24.1	24.3	24.4
Current	I_{MPP} [A]	7.52	7.61	7.73
Open-circuit voltage	V_{OC} [V]	29.7	29.8	29.9
Short-circuit current	I_{SC} [A]	7.97	8.04	8.10
Efficiency	η [%]	17.0	17.4	17.7

Electrical values measured under nominal module operating temperature: 800 W/m²; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT : 44.5°C

ELECTRICAL DATA (LOW IRRADIANCE)		X55L245	X55L250	X55L255
Power	P_{MPP} [W]	48	49	50

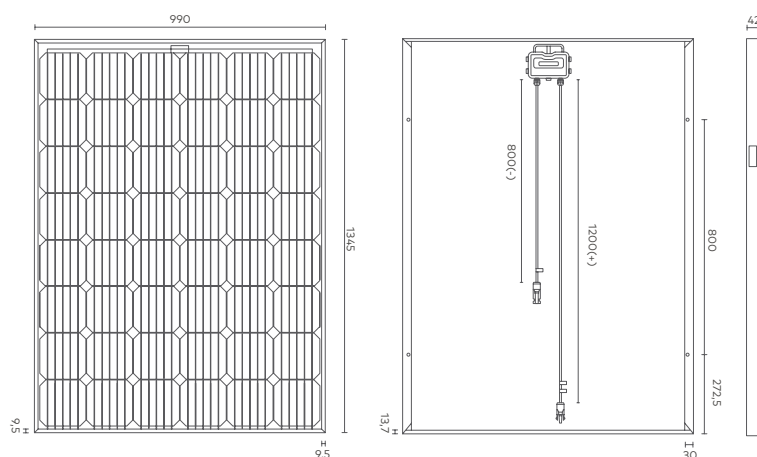
Electrical values measured under: 200 W/m²; 25°C; AM 1.5

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	MC4
Bypass diodes	3

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

DIMENSIONS [mm]



CERTIFICATIONS AND WARRANTY

Product Guarantee	15 years, optional 25 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	IEC 61215, IEC 61730 IEC 62716 – Ammonia Resistance IEC 61701 – Salt mist Resistance IEC 62804 – PID Resistance MCS 010; MCS 005

LOADS

Max. module pressure load (Testload)	[Pa]	8000 ¹
Max. module pressure load (Designload) ²	[Pa]	5333 ¹
Max. module suction load (Testload)	[Pa]	2400 ¹
Max. module suction load (Designload) ²	[Pa]	1600 ¹
Max. system voltage	[V _{DC}]	1000
Reverse current load	I_r [A]	20

Mechanical load acc. to IEC/EN 61215

¹ Please observe the mounting conditions in the installation manual

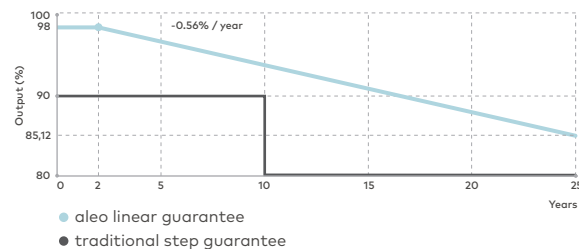
² Testload/ Safety factor 1.5 = Designload

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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