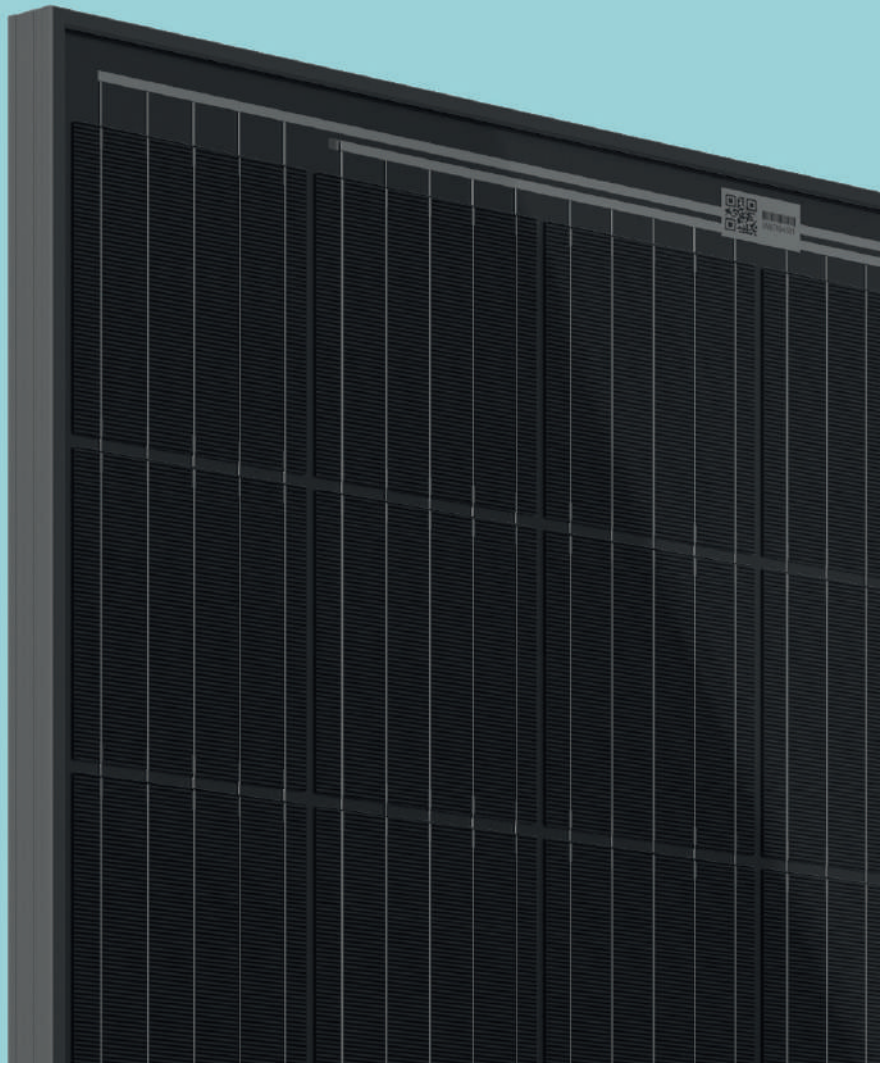
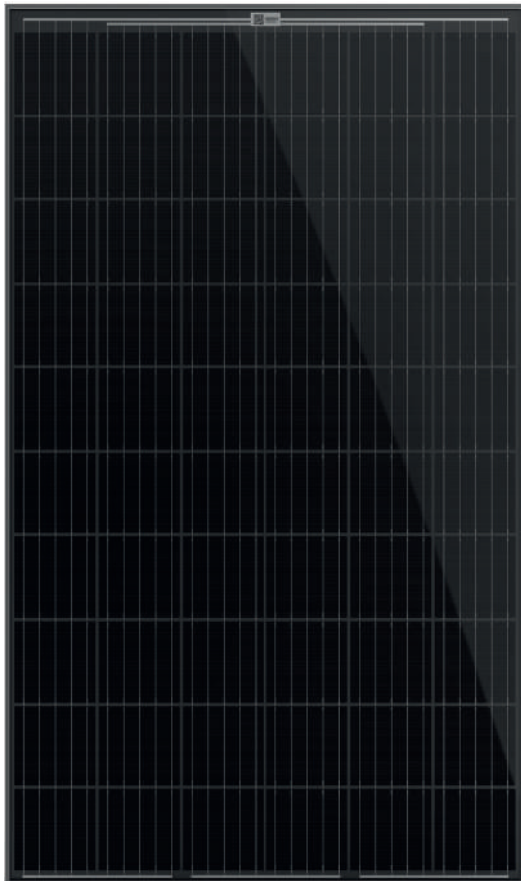


X83 Premium

320 - 330 W



QUALITY SIGNED AND SEALED



ALL BLACK FINISHING

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

25 YEAR PRODUCT GUARANTEE



PID FREE

PID tested with excellent results
under the harshest conditions



25 YEARS PRODUCT GUARANTEE



**25 YEARS LINEAR
PERFORMANCE WARRANTY**



CRAFTED WITH PASSION



CONSTANTLY HIGH CELL QUALITY

through strict quality examinations
by high-resolution electroluminescence
measurements.

100% of diodes are tested.

aleo solar module X83 Premium

ELECTRICAL DATA (STC)		X83L320	X83L325	X83L330
Rated power	P_{MPP} [W]	320	325	330
Rated voltage	V_{MPP} [V]	32.8	33.0	33.3
Rated current	I_{MPP} [A]	9.75	9.85	9.93
Open-circuit voltage	V_{OC} [V]	40.3	40.5	40.7
Short-circuit current	I_{SC} [A]	10.22	10.31	10.39
Efficiency	η [%]	18.2	18.5	18.8

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

ELECTRICAL DATA (NMOT)		X83L320	X83L325	X83L330
Power	P_{MPP} [W]	236	240	244
Voltage	V_{MPP} [V]	30.4	30.6	30.8
Current	I_{MPP} [A]	7.78	7.85	7.92
Open-circuit voltage	V_{OC} [V]	37.7	37.9	38.0
Short-circuit current	I_{SC} [A]	8.24	8.31	8.37
Efficiency	η [%]	16.8	17.1	17.4

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)		X83L320	X83L325	X83L330
Power	P_{MPP} [W]	62	63	64

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	X83L320	X83L325	X83L330
Classification range (positive classification) [W]	0/+4.99	0/+4.99	0/+2.99

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)
Back sheet	Polymer sheet, black
Frame material	Al alloy, black

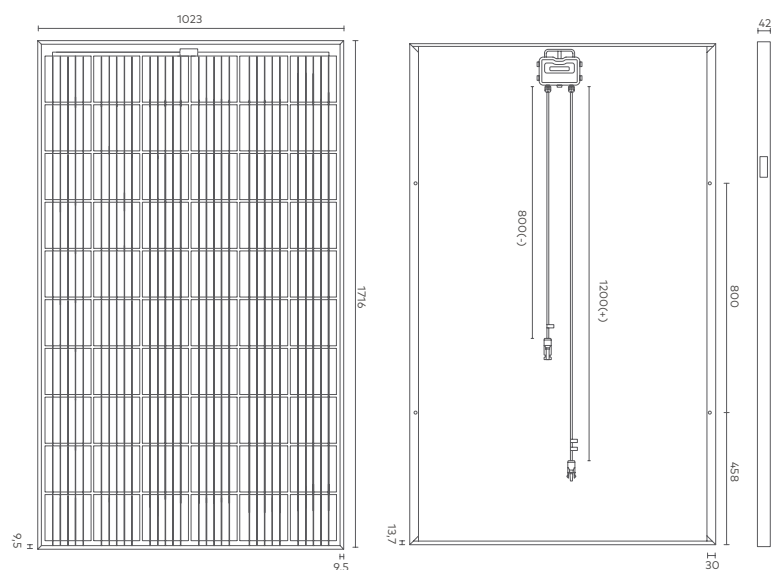
CERTIFICATIONS AND GUARANTEES	
Product Guarantee	25 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	IEC 61215, IEC 61730 IEC 62716 – Ammonia Resistance IEC 61701 – Salt mist Resistance IEC 62804 – PID Resistance MCS 010; MCS 005

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

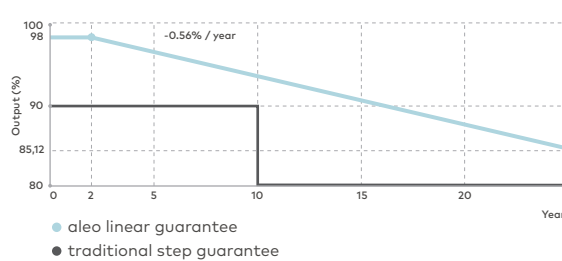
Mechanical load acc. to IEC/EN 61215:2016
¹ Please observe the mounting conditions in the installation manual
² Testload/ Safety factor 1.5 = Designload

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

DIMENSIONS [mm]



PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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