

X79

305 - 315W



QUALITY SIGNED AND SEALED

ALL BLACK FINISHING

**25 YEAR PRODUCT GUARANTEE
OPTIONAL AVAILABLE**

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



PID FREE

PID tested with excellent results under the harshest conditions



CRAFTED WITH PASSION



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



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



**25 YEARS LINEAR PERFORMANCE
WARRANTY**

aleo solar module X79 HE

ELECTRICAL DATA (STC)		X79L305	X79L310	X79L315
Rated power	P_{MPP} [W]	305	310	315
Rated voltage	U_{MPP} [V]	32.5	32.7	33.0
Rated current	I_{MPP} [A]	9.38	9.47	9.56
Open-circuit voltage	U_{OC} [V]	39.6	39.8	40.0
Short-circuit current	I_{SC} [A]	9.89	9.98	10.06
Efficiency	η [%]	18.6	18.9	19.2

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

ELECTRICAL DATA (NMOT)		X79L305	X79L310	X79L315
Power	P_{MPP} [W]	225	229	233
Voltage	V_{MPP} [V]	30.1	30.3	30.6
Current	I_{MPP} [A]	7.49	7.55	7.62
Open-circuit voltage	V_{OC} [V]	37.1	37.2	37.4
Short-circuit current	I_{SC} [A]	7.97	8.04	8.10
Efficiency	η [%]	17.2	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: 45.5°C

ELECTRICAL DATA (LOW IRRADIANCE)		X79L305	X79L310	X79L315
Power	P_{MPP} [W]	59	60	61

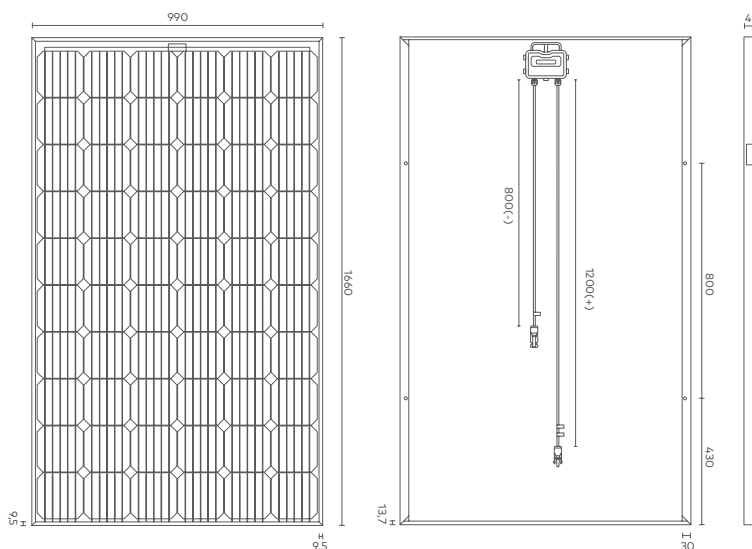
Electrical values measured under: 200 W/m²; 25°C; AM 1.5

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		MC4	
Bypass diodes		3	

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

DIMENSIONS [MM]



BASIC MODULE DATA		
Length x width x height	[mm]	1660 x 990 x 42
Weight	[kg]	19
Number of cells		60
Cell size	[mm]	156.75 x 156.75
Cell material		Monocrystalline Si
Number of bus bars		5
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, black
Frame material		Al alloy, black

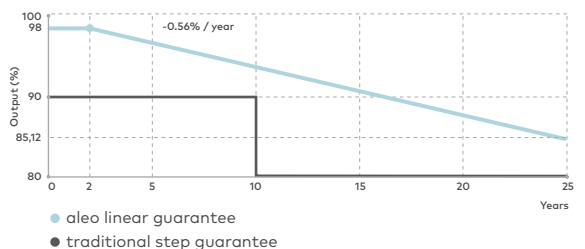
CERTIFICATIONS AND WARRANTY	
Product Guarantee	15 years, optional 25 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	IEC 61215, IEC 61730
	IEC 62716 – Ammonia Resistance
	IEC 61701 – Salt mist Resistance
	IEC 62804 – PID Resistance
	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 61215:2016
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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