

**X75**

**240 - 250W**



QUALITY SIGNED AND SEALED



**48 CELLS - 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 X75 HE

ELECTRICAL DATA (STC)		X75L240	X75L245	X75L250
Rated power	$P_{MPP}$ [W]	240	245	250
Rated voltage	$U_{MPP}$ [V]	25.8	26.1	26.4
Rated current	$I_{MPP}$ [A]	9.30	9.38	9.47
Open-circuit voltage	$U_{OC}$ [V]	31.6	31.7	31.9
Short-circuit current	$I_{SC}$ [A]	9.81	9.89	9.98
Efficiency	$\eta$ [%]	18.0	18.4	18.8

Electrical values measured under standard test conditions (STC): 1000 W/m<sup>2</sup>; 25°C; AM 1.5

ELECTRICAL DATA (NMOT)		X75L240	X75L245	X75L250
Power	$P_{MPP}$ [W]	177	181	185
Voltage	$V_{MPP}$ [V]	23.9	24.1	24.3
Current	$I_{MPP}$ [A]	7.42	7.52	7.61
Open-circuit voltage	$V_{OC}$ [V]	29.5	29.7	29.8
Short-circuit current	$I_{SC}$ [A]	7.90	7.97	8.04
Efficiency	$\eta$ [%]	16.7	17.0	17.4

Electrical values measured under nominal module operating temperature : 800 W/m<sup>2</sup>; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT: 45.5°C

ELECTRICAL DATA (LOW IRRADIANCE)		X75L240	X75L245	X75L250
Power	$P_{MPP}$ [W]	47	48	49

Electrical values measured under: 200 W/m<sup>2</sup>; 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

BASIC MODULE DATA	
Length x width x height	[mm] 1345 x 990 x 42
Weight	[kg] 15
Number of cells	48
Cell size	[mm] 156.75 x 156.75
Cell material	Monocrystalline Si, PERC
Number of bus bars	5
Front sheet	Solar glass (TSG)
Back sheet	Polymer sheet, black
Frame material	Al alloy, black

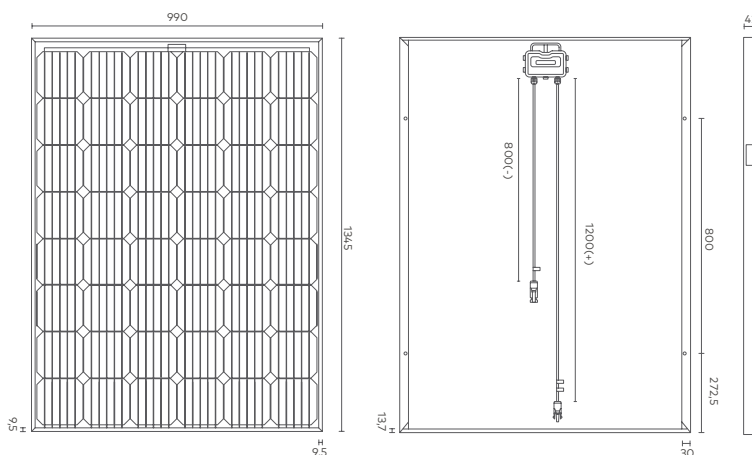
CERTIFICATIONS AND WARRANTY	
Product Guarantee	15 years, optional 25 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	IEC 61215, IEC 61730
	IEC 62716 – Ammonia Resistance
	IEC 61701 – Salt mist Resistance
	IEC 62804 – PID Resistance
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

LOADS		
Max. module pressure load (Testload)	[Pa]	8000 <sup>1</sup>
Max. module pressure load (Designload) <sup>2</sup>	[Pa]	5333 <sup>1</sup>
Max. module suction load (Testload)	[Pa]	2400 <sup>1</sup>
Max. module suction load (Designload) <sup>2</sup>	[Pa]	1600 <sup>1</sup>
Max. system voltage	[V <sub>DC</sub> ]	1000
Reverse current load	$I_R$ [A]	20

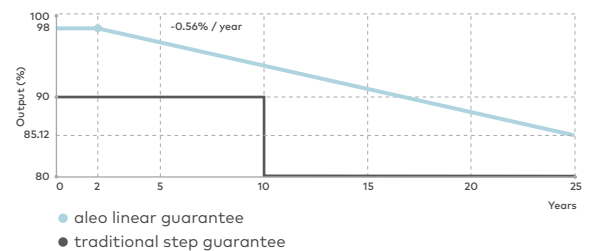
Mechanical load acc. to IEC/EN 61215  
<sup>1</sup> Please observe the mounting conditions in the installation manual  
<sup>2</sup> Testload/ Safety factor 1.5 = Designload

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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**aleo**