aleo

Your gateway towards reliable solar energy



S18

250 - 265 W

QUALITY SIGNED AND SEALED

60	97% of nominal power guaranteed	15 years
cells	the first two years	of experience in polycrystalline technology

PID FREE
PID tested with excellent results under the harshest conditions

25 YEARS LINEAR PERFORMANCE WARRANTY

12 YEARS PRODUCT WARRANTY

CRAFTED WITH PASSION

HIGH RELIABILITY
all modules are checked with high resolution electroluminescence and infrared measurements. 100% of diodes are tested.

Made in Germany

aleo solar module S18

ELECTRICAL DATA (STC)			S18_250	S18_255	S18_260	S18_265
Rated power	P_{MPP}	[W]	250	255	260	265
Rated voltage	V_{MPP}	[V]	30.3	30.4	30.5	30.7
Rated current	I_{MPP}	[A]	8.24	8.38	8.51	8.64
Open-circuit voltage	V_{OC}	[V]	37.5	37.6	37.7	37.7
Short-circuit current	I_{SC}	[A]	8.76	8.88	9.01	9.14
Efficiency	n	[%]	15.2	15.5	15.8	16.1

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

ELECTRICAL DATA (NOCT)			S18_250	S18_255	S18_260	S18_265
Power	P_{MPP}	[W]	183	187	190	194
Voltage	U_{MPP}	[V]	27.4	27.5	27.6	27.7
Current	I_{MPP}	[A]	6.67	6.78	6.89	7.00
Open-circuit voltage	U_{OC}	[V]	34.5	34.6	34.6	34.7
Short-circuit current	I_{SC}	[A]	7.12	7.22	7.33	7.43
Efficiency	n	[%]	13.9	14.2	14.5	14.8

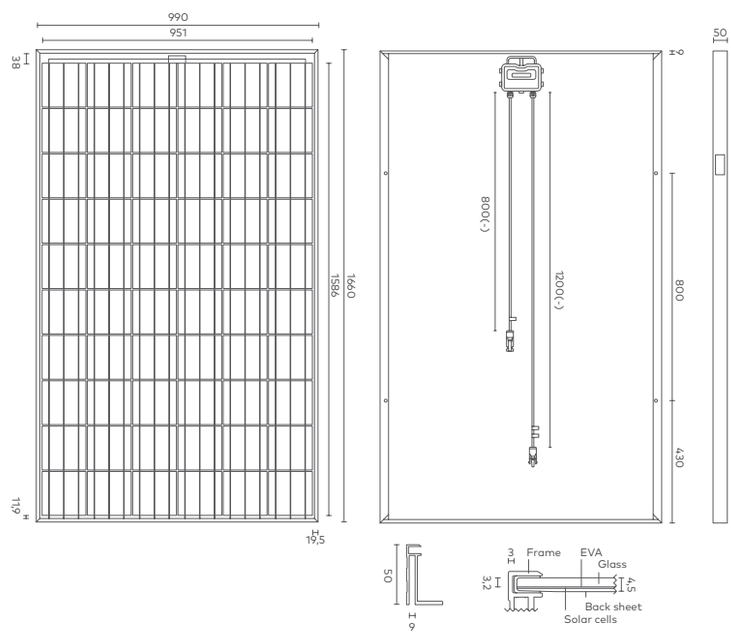
Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 47°C (nominal operating cell temperature)

TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	α (I_{SC})	[%/K]	+0.05
Temperature coefficient U_{OC}	ß (U_{OC})	[%/K]	-0.31
Temperature coefficient P_{MPP}	Y (P_{MPP})	[%/K]	-0.42

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

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

DIMENSIONS [MM]



BASIC MODULE DATA		
Length x width x height	[mm]	1660 x 990 x 50
Weight	[kg]	20
Number of cells		60
Cell size	[mm]	156 x 156
Cell material		Polycrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, white
Frame material		Al alloy, silver

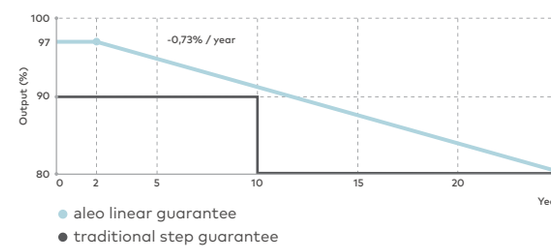
CERTIFICATIONS AND WARRANTY	
Product Guarantee	12 years
Power Guarantee	25 years – linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	§ IEC 61215, IEC 61730-1/-2
	§ IEC 62716 – Ammonia Resistance
	§ IEC 61701 – Salt mist Resistance
	§ IEC 62804 – PID Resistance
	§ MCS 010; MCS 005

LOADS			
Max. module pressure load		[Pa]	5400*
Max. module suction load		[Pa]	5400*
Max. system voltage		[V_{DC}]	1000
Reverse current load	I_R	[A]	20

Mechanical load acc. to IEC/EN 61215
* Please observe the mounting conditions in the installation manual

ADDITIONAL ELECTRICAL DATA		
Reduction of STC efficiency from 1000 W/m² to 200 W/m²	[% rel.]	< 1
Classification range (positive classification)	[W]	0/+4.99

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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