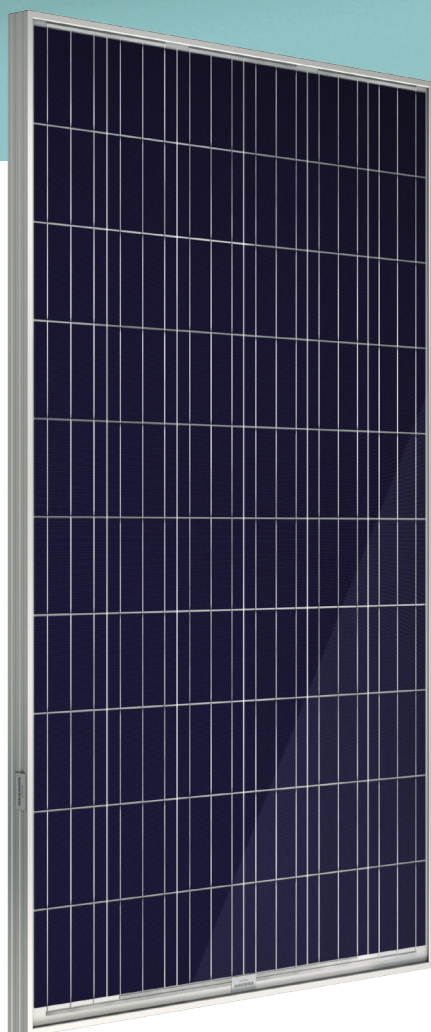




aleo

Your gateway towards reliable solar energy



S18

245 - 265 W



QUALITY SIGNED AND SEALED



60
cells

97% of nominal
power guaranteed
the first two years

15 years
of experience in polycrystalline
technology



PID FREE

PID tested with excellent results
under the harshest conditions



CRAFTED WITH PASSION



25 YEARS LINEAR PERFORMANCE WARRANTY



HIGH RELIABILITY

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



10 YEARS PRODUCT WARRANTY



Made in Germany

aleo solar module S18

ELECTRICAL DATA (STC)		S18_245	S18_250	S18_255	S18_260	S18_265
Rated power	P_{MPP} [W]	245	250	255	260	265
Rated voltage	U_{MPP} [V]	30.2	30.3	30.4	30.5	30.7
Rated current	I_{MPP} [A]	8.11	8.24	8.38	8.51	8.64
Open-circuit voltage	U_{OC} [V]	37.5	37.5	37.6	37.7	37.7
Short-circuit current	I_{SC} [A]	8.63	8.76	8.88	9.01	9.14
Efficiency	η [%]	14.9	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_245	S18_250	S18_255	S18_260	S18_265
Power	P_{MPP} [W]	179	183	187	190	194
Voltage	U_{MPP} [V]	27.3	27.4	27.5	27.6	27.7
Current	I_{MPP} [A]	6.56	6.67	6.78	6.89	7.00
Open-circuit voltage	U_{OC} [V]	34.5	34.5	34.6	34.6	34.7
Short-circuit current	I_{SC} [A]	7.02	7.12	7.22	7.33	7.43
Efficiency	η [%]	13.6	13.9	14.2	14.5	14.8

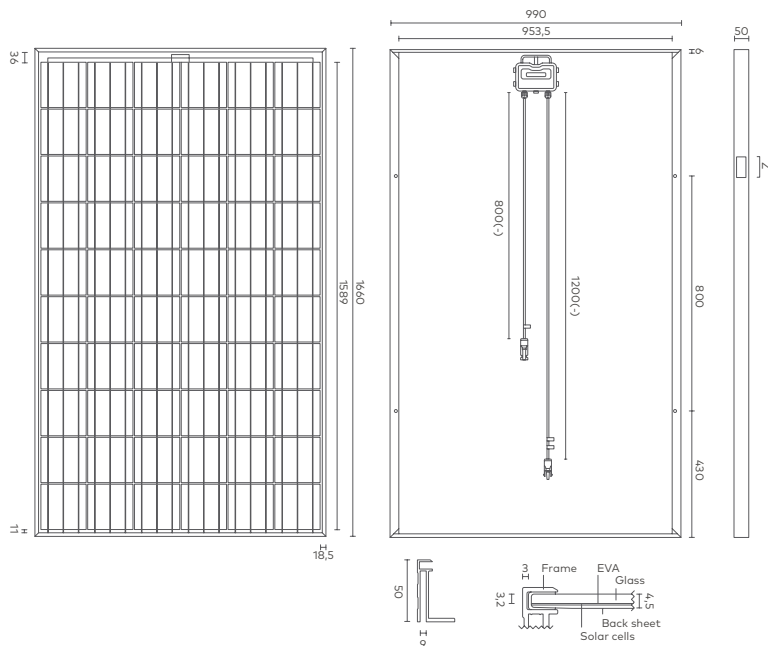
Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 47°C (nominal operating cell temperature)

TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0,05
Temperature coefficient U_{OC}	$\beta (U_{OC})$	[%/K]	-0,31
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/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	PV-JM601
Bypass diodes	3

Measurement tolerance of PMPP 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	10 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

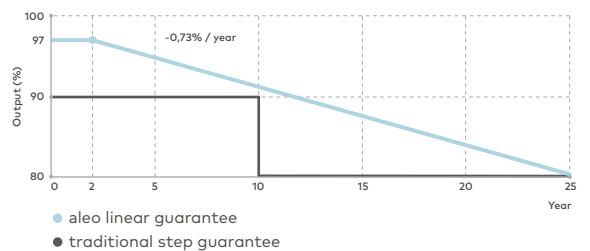
LOADS		
Max. module pressure load	[Pa]	5400*
Max. module suction load	[Pa]	5400*
Max. system voltage	$[V_{DC}]$	1000
Reverse current load	I_R [A]	20

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/m ² to 200 W/m ²	[%] rel.	< 1
Classification range (positive classification)	[W]	0/+4,99

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER