aleo

More Power.
Endless possibilities.



S19 HE

300 W **Supercharged**

QUALITY SIGNED AND SEALED

25 year
Product Guarantee
optional available

+9,99 Wp
positive sorting

100% of nominal
power guaranteed
in the first two years

PID FREE
PID tested with excellent results under the harshest conditions

12 YEARS PRODUCT GUARANTEE UPGRADEABLE TO 25 YEARS AS A PREMIUM OPTION

25 YEARS LINEAR PERFORMANCE WARRANTY

SUPERCHARGED OPTION AVAILABLE (+6/9,99 W POWER SORTING OPTION)

CONSTANTLY HIGH CELL QUALITY
through strict quality examinations by highresolution electroluminescence and infraredmeasurements

CRAFTED WITH PASSION

Made in Germany

aleo solar module S19 HE Supercharged

ELECTRICAL DATA (STC)			S19L300
Rated power	P_{MPP}	[W]	300
Rated voltage	V_{MPP}	[V]	31.2
Rated current	I_{MPP}	[A]	9.63
Open-circuit voltage	V_{OC}	[V]	39.4
Short-circuit current	I_{SC}	[A]	9.97
Efficiency	n	[%]	18.3

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

ELECTRICAL DATA (NOCT)			S19L300
Power	P_{MPP}	[W]	220
Voltage	V_{MPP}	[V]	28.5
Current	I_{MPP}	[A]	7.72
Open-circuit voltage	V_{OC}	[V]	36.3
Short-circuit current	I_{SC}	[A]	8.07
Efficiency	n	[%]	16.7

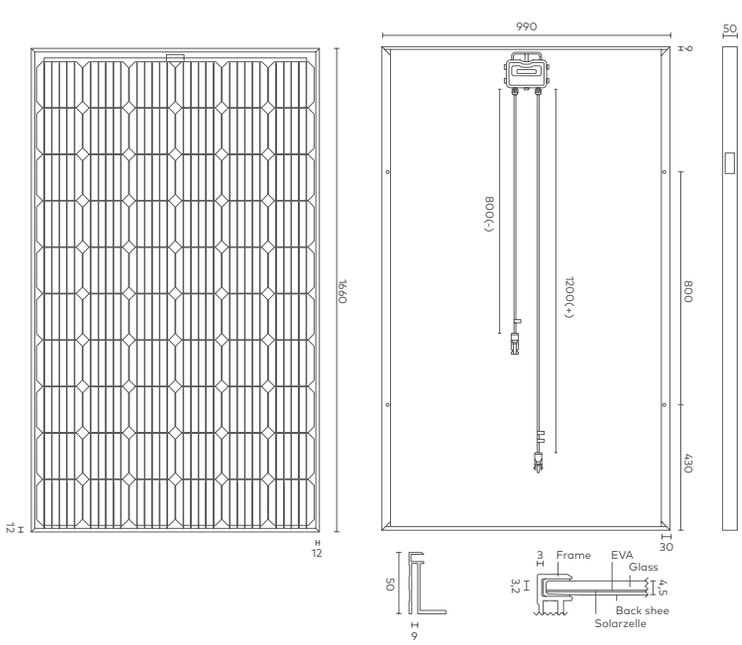
Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 48°C (nominal operating cell temperature)

TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	a (I_{SC})	[%/K]	+0.05
Temperature coefficient V_{OC}	ß (V_{OC})	[%/K]	-0.29
Temperature coefficient P_{MPP}	Y (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

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]	156.75 x 156.75
Cell material		Monocrystalline Si
Number of bus bars		3 or 5
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, white
Frame material		Al alloy, silver

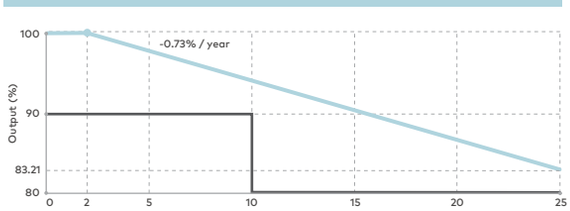
CERTIFICATIONS AND WARRANTY	
Product Guarantee	12 years, optional 25 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	§ IEC 61215, IEC 61730-1/-2
	§ IEC 62716 – Ammonia Resistance
	§ IEC 61701 – Salt mist Resistance
	§ IEC 62804 – PID 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.]	< 2
Classification range (positive classification)	[W]	0/+9.99

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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