aleo

Turn your roof into an elegant power source



S79 sol

290-300 W

QUALITY SIGNED AND SEALED

All black
finishing BIPV solution

98% of nominal power guaranteed
the first two years

Full package:
modules + flashings

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

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 S79 sol

ELECTRICAL DATA (STC)			S79 SOL_290	S79 SOL_295	S79 SOL_300
Rated power	P_{MPP}	[W]	290	295	300
Rated voltage	V_{MPP}	[V]	31.3	31.3	31.2
Rated current	I_{MPP}	[A]	9.25	9.42	9.63
Open-circuit voltage	V_{OC}	[V]	39.3	39.3	39.4
Short-circuit current	I_{SC}	[A]	9.80	9.87	9.97
Efficiency	n	[%]	16.8	17.0	17.3

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

BASIC MODULE DATA		
Length x width x height	[mm]	1704 x 1016 x 36
Weight	[kg]	19
Number of cells		60
Cell size	[mm]	156.75 x 156.75
Cell material		Monocrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet, black
Frame material		Al alloy, black

ELECTRICAL DATA (NOCT)			S79 SOL_290	S79 SOL_295	S79 SOL_300
Power	P_{MPP}	[W]	211	215	219
Voltage	V_{MPP}	[V]	28.3	28.4	28.5
Current	I_{MPP}	[A]	7.45	7.59	7.72
Open-circuit voltage	V_{OC}	[V]	36.0	36.2	36.3
Short-circuit current	I_{SC}	[A]	7.93	7.99	8.07
Efficiency	n	[%]	15.2	15.5	15.8

Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 49°C (nominal operating cell temperature)

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

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

LOADS			
Max. module pressure load		[Pa]	2400*
Max. module suction load		[Pa]	2400*
Max. system voltage		[V_{DC}]	1000
Reverse current load	I_R	[A]	20

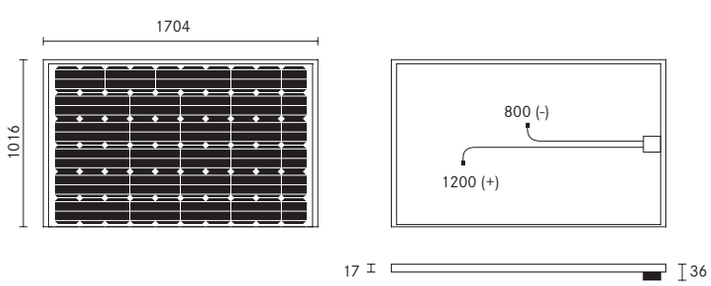
Mechanical load acc. to IEC/EN 61215
* Please observe the mounting conditions in the installation manual

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

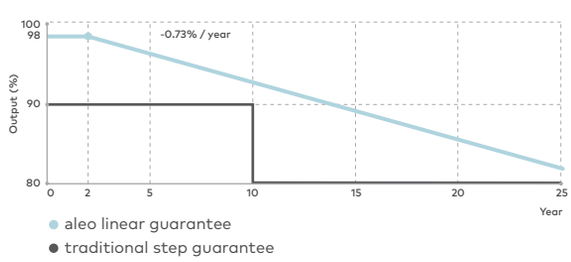
Measurement tolerance of P_{MPP} under STC -3/+3% | Accuracy of other electrical values -10/+10%
Efficiency relating to gross module area

ADDITIONAL ELECTRICAL DATA		
Reduction of STC efficiency from 1000 W/m² to 200 W/m²	[% rel.]	< 2
Classification range (positive classification)	[W]	0/+4.99

DIMENSIONS [MM]



PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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