

Strong performance

Due to the unique combination of components, the high-efficiency modules from aleo solar are particularly powerful. With the high efficiency, the aleo S19 offers maximum performance compared to the small overall area required. This also means: less effort and less material for installation. This increase in efficiency and the long-term high energy yields of aleo S19 ensure efficient operation of your photovoltaic system. The quality of aleo modules is continuously tested and confirmed by independent institutes. aleo modules are sorted with a positive power classification. The performance is guaranteed by aleo solar for 25 years, the product guarantee is for 10 years.



High Efficiency

Efficient use of sunlight due to unique combination of module components



Known worldwide and certified

VDE (IEC 61215 Ed. 2, EC 61730-1 Ed. 1 and IEC 61730-2 Ed. 1)



Comprehensive quality management

Production to international quality and environmental standards, for example, ISO 9001 and ISO 14001 as well as stringent internal controlling

Our modules – Quality signed and sealed



Solar module aleo S19

Electrical data (STC)			S19J265	S19J270	S19J275
Rated power	P_{MPP}	[W]	265	270	275
Rated voltage	V_{MPP}	[V]	31,3	31,4	31,4
Rated current	I_{MPP}	[A]	8,51	8,65	8,79
Open-circuit voltage	V_{OC}	[V]	38,5	38,6	38,6
Short-circuit current	I_{SC}	[A]	9,13	9,20	9,26
Efficiency	η	[%]	16.4	16.7	17.0

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

Electrical data (NOCT)			S19J265	S19J270	S19J275
Power	P_{MPP}	[W]	193	195	200
Voltage	V_{MPP}	[V]	28.5	28.4	28.2
Current	I_{MPP}	[A]	6.76	6.88	7.10
Open-circuit voltage	V_{OC}	[V]	35.2	35.2	35.9
Short-circuit current	I_{SC}	[A]	7.17	7.29	7.78
Efficiency	η	[%]	14.6	14.9	15.2

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)

Additional electrical data		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%] rel.	< 2.5
Classification range (positive classification)	[W]	0/+4.99

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

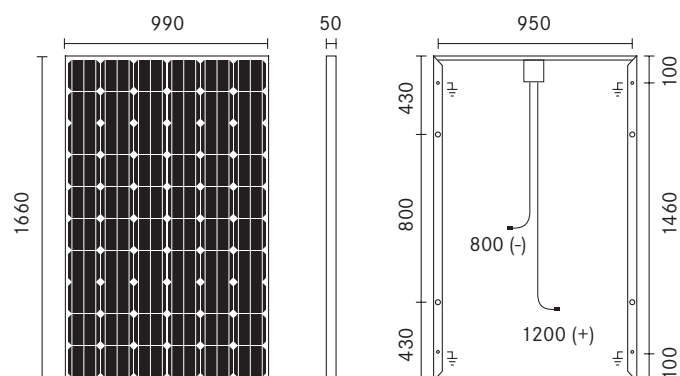
Temperature coefficients		
Temperature coefficient I_{SC}	$\alpha (I_{SC})$ [%/K]	+0.05
Temperature coefficient V_{OC}	$\beta (V_{OC})$ [%/K]	-0.29
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$ [%/K]	-0.40

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

Basic module data		
Length x width x height	[mm ³]	1660 x 990 x 50
Weight	[kg]	20
Number of cells		60
Cell size	[mm ²]	156 x 156
Cell material		Monocrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet
Frame material		Al alloy

Basic data junction box		
Length x width x height	[mm ³]	148 x 123 x 27
IP class		IP65
Cable length	[mm]	1200 (+), 800 (-)
Connectors		PV-JM601
Bypass diodes		3

Dimensions [mm]



Please contact your authorised aleo dealer

