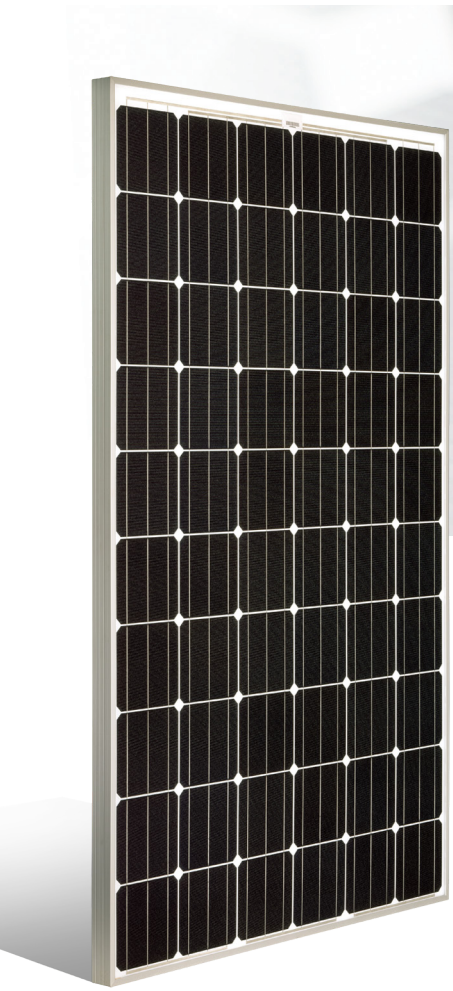
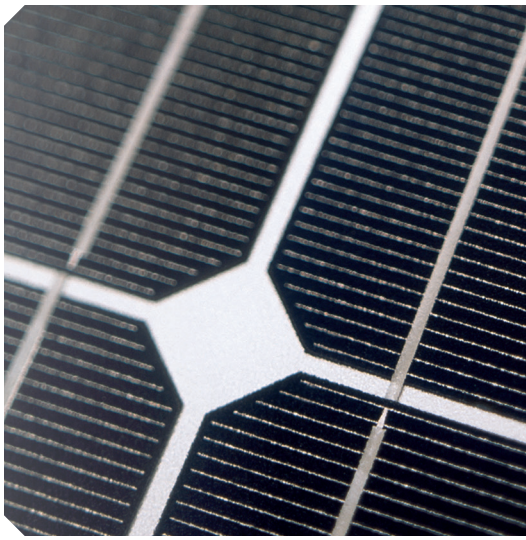
EN | EN | DE **240 - 255 W**

Solar module aleo S_19 gen2





Strong Performance

Can excellent solar modules be made even better? Yes, they can – by aleo! The generation 2 of the robust, high yielding aleo S_19 module with first class workmanship possesses a new frame and optimised connectors. That´s why the module is more stable and easier to install. Whether by salt mist or barn vapour, high snow loads or strong wind pressure – the aleo S_19 gen2 delivers long-term high energy yields under extreme conditions. aleo modules are classified with a positive power tolerance. The performance is guaranteed by aleo solar for 25 years, the product guarantee is for 10 years.

Everything from a single source
Consultancy, complete system planning, delivery, financing, insurance, training, disposal

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

Robust and simple to install
Improved frame stability, approved for increased pressure and suction loads of 5400 Pascal, flexible mounting through slotted holes and longer connection cables

Known worldwide and certified
VDE (IEC 61215 Ed. 2, IEC 61730-1 Ed. 1 and IEC 61730-2 Ed. 1), Clean Energy Council (approved PV module)

Our modules – Quality signed and sealed

Contact: aleo solar | Osterstrasse 15 | 26122 Oldenburg | Germany | **www.aleo-solar.com**

Solar module aleo S_19 gen2

Electrical data (STC)			S19G240	S19G245	S19G250	S19G255
Rated power	P_{MPP}	[W]	240	245	250	255
Rated voltage	U_{MPP}	[V]	29.7	30.2	30.8	31.3
Rated current	I_{MPP}	[A]	8.09	8.10	8.12	8.14
Open-circuit voltage	U_{OC}	[V]	37.2	37.7	38.3	38.8
Short-circuit current	I_{SC}	[A]	8.64	8.66	8.67	8.69
Efficiency	η	[%]	14.6	14.9	15.2	15.5

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

Electrical data (NOCT)			S19G240	S19G245	S19G250	S19G255
Power	P_{MPP}	[W]	174	178	182	185
Voltage	U_{MPP}	[V]	26.8	27.3	27.8	28.4
Current	I_{MPP}	[A]	6.50	6.51	6.52	6.53
Open-circuit voltage	U_{OC}	[V]	34.2	34.6	35.1	35.6
Short-circuit current	I_{SC}	[A]	6.97	6.99	7.01	7.02
Efficiency	η	[%]	13.2	13.5	13.8	14.1

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/m² to 200 W/m²	[%] rel.	< 4
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]	15

Mechanical load acc. to IEC/EN 61215

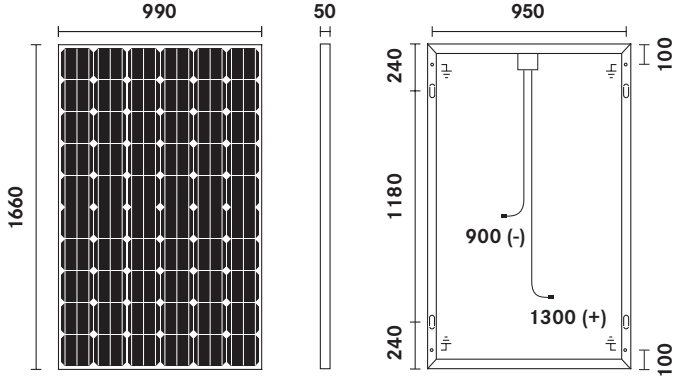
Temperature coefficients			
1st temperature coefficient	α (I_{SC})	[%/K]	+0.04
2nd temperature coefficient	β (U_{OC})	[%/K]	-0.31
3rd temperature coefficient	γ (P_{MPP})	[%/K]	-0.44

Basic data module		
Length x width x height	[mm³]	1660 x 990 x 50
Weight	[kg]	21
Number of cells		60
Cell size	[mm²]	156 x 156
Cell material		Monocrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Weatherproof polymer sheet
Frame material		Al alloy

Basic data junction box		
Length x width x height	[mm³]	141 x 101 x 28
IP class		IP65
Cable length	[mm]	1300 (+), 900 (-)
Connectors		MC4 class
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]



Please contact your authorised aleo dealer