



Now available
with 295 W

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

BABT (MCS), VDE (IEC 61215 Ed. 2, IEC 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

APPROVED PRODUCT



Our modules – Quality signed and sealed



Solar module aleo S19

| Electrical data (STC) | | | S19L280 | S19L285 | S19L290 | S19L295 |
|-----------------------|------------------|-----|---------|---------|---------|---------|
| Rated power | P _{MPP} | [W] | 280 | 285 | 290 | 295 |
| Rated voltage | V _{MPP} | [V] | 31.2 | 31.3 | 31.3 | 31.3 |
| Rated current | I _{MPP} | [A] | 8.97 | 9.10 | 9.25 | 9.42 |
| Open-circuit voltage | V _{OC} | [V] | 39.2 | 39.2 | 39.3 | 39.3 |
| Short-circuit current | I _{SC} | [A] | 9.67 | 9.73 | 9.80 | 9.87 |
| Efficiency | η | [%] | 17.0 | 17.3 | 17.6 | 18.0 |

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

| Electrical data (NOCT) | | | S19L280 | S19L285 | S19L290 | S19L295 |
|------------------------|------------------|-----|---------|---------|---------|---------|
| Power | P _{MPP} | [W] | 205 | 208 | 212 | 215 |
| Voltage | V _{MPP} | [V] | 28.4 | 28.4 | 28.4 | 28.4 |
| Current | I _{MPP} | [A] | 7.21 | 7.33 | 7.45 | 7.59 |
| Open-circuit voltage | V _{OC} | [V] | 36.1 | 36.1 | 36.2 | 36.2 |
| Short-circuit current | I _{SC} | [A] | 7.82 | 7.87 | 7.93 | 7.99 |
| Efficiency | η | [%] | 15.6 | 15.8 | 16.1 | 16.4 |

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 | [%] | 0 | |
| | rel. | | |
| 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} | α (I _{SC}) | [%/K] | +0.05 |
| Temperature coefficient V _{OC} | β (V _{OC}) | [%/K] | -0.30 |
| Temperature coefficient P _{MPP} | γ (P _{MPP}) | [%/K] | -0.43 |

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 |
|-----------------|--|
|-----------------|--|

