



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



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



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



CONSTANTLY HIGH CELL QUALITY
through strict quality examinations
by high-resolution electroluminescence
and infrared measurements



**25 YEARS LINEAR PERFORMANCE
WARRANTY**



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 | η [%] | 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 | η [%] | 16.7 |

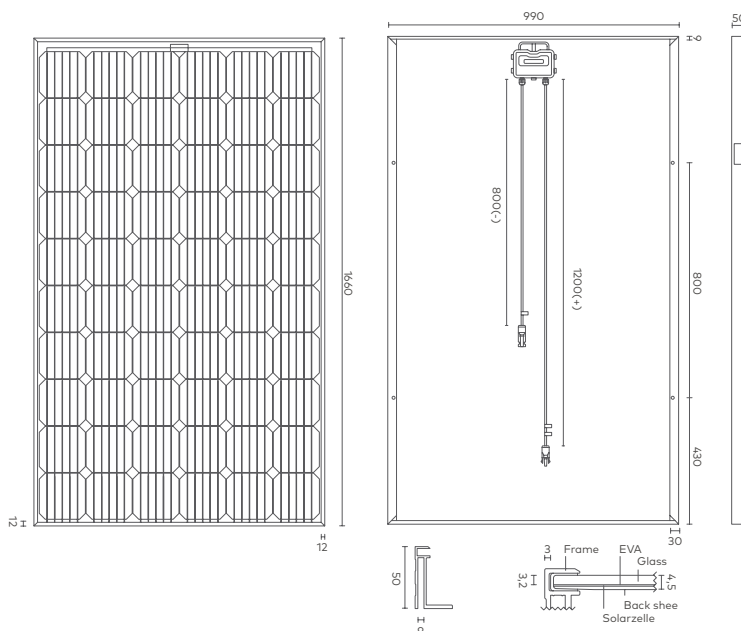
Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 48°C (nominal operating cell temperature)

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

| 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]



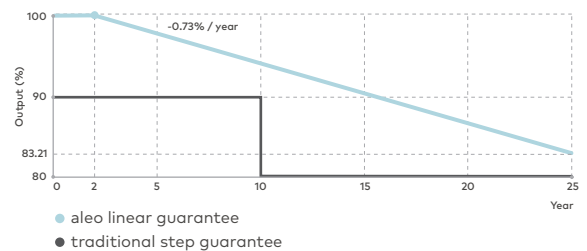
| BASIC MODULE DATA | | |
|-------------------------|------|----------------------|
| Length x width x height | [mm] | 1660 x 990 x 50 |
| Weight | [kg] | 20 |
| Number of cells | | 60 |
| Cell size | [mm] | 156.75 x 156.75 |
| Cell material | | Monocrystalline Si |
| Number of bus bars | | 3 or 5 |
| 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 | <ul style="list-style-type: none"> § 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/m ² to 200 W/m ² | [%] rel. | < 2 |
| Classification range (positive classification) | [W] | 0/+9.99 |

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER