

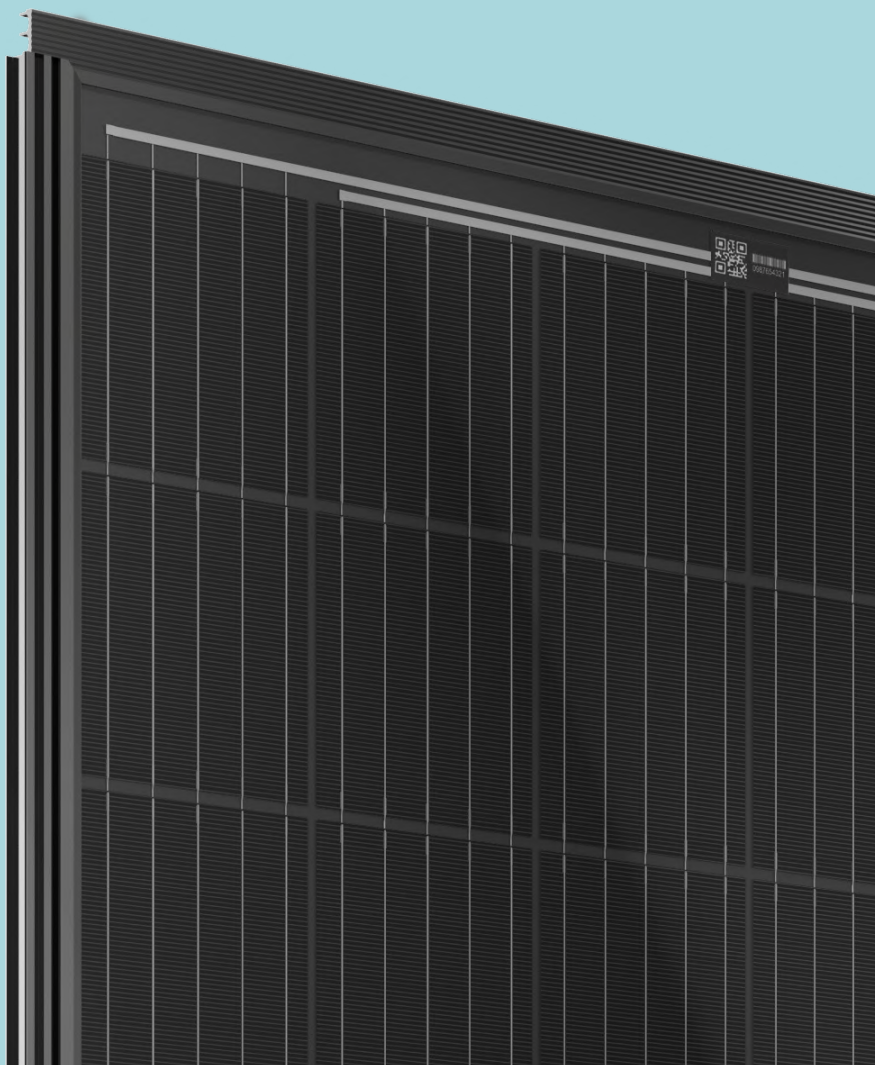
S81 sol Premium

255 - 265 W

48 cells - connectable with
our 60 cell module



 Made in
GERMANY



GERMAN ENGINEERING AND MANUFACTURING

Incorporated in 2001, aleo is recognized as one of the most trustworthy manufacturers of solar panels. We produce all our products in our certified production plant in Prenzlau, Germany.

THE BEST GUARANTEE PACKAGE

 25 Years Product Guarantee  25 Years linear Performance Guarantee

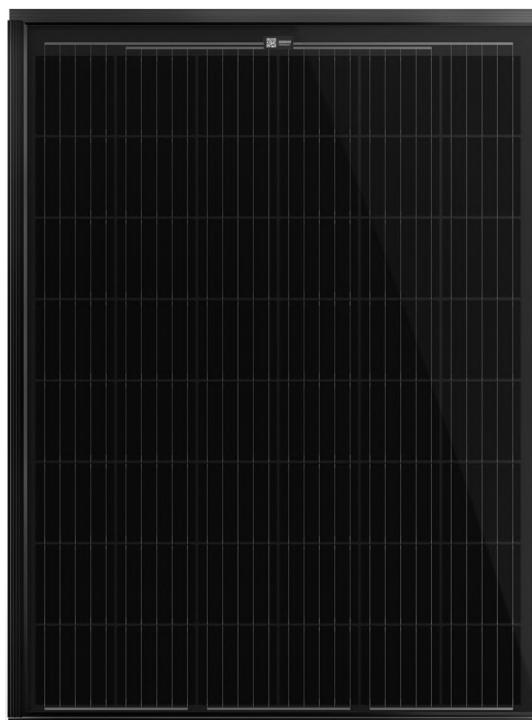
98% of nominal power guaranteed in the first two years

SOLRIF IN-ROOF MODULE

- + Complete package with flashing
- + Replaces the conventional roof covering
- + As weather-tight as a traditionally tiled roof
- + Higher surface yield due to narrow frame profiles
- + With aleo blind modules, full roof coverage is possible

OUR QUALITY IS CERTIFIED

- + IEC 61215:2016 and IEC 61730:2016
- + General Building Supervision Test Report against flying sparks and radiant heat (hard roofing)
- + PID resistance
- + LeTID resistance
- + Dynamic mechanical load test
- + Snail Trail Free



aleo solar module S81 sol Premium

| ELECTRICAL DATA (STC) | | S81T255 | S81T260 | S81T265 |
|-----------------------|---------------|---------|---------|---------|
| Rated power | P_{MPP} [W] | 255 | 260 | 265 |
| Rated voltage | V_{MPP} [V] | 26.5 | 26.6 | 26.7 |
| Rated current | I_{MPP} [A] | 9.56 | 9.74 | 9.93 |
| Open-circuit voltage | V_{OC} [V] | 32.4 | 32.5 | 32.6 |
| Short-circuit current | I_{SC} [A] | 10.07 | 10.27 | 10.47 |
| Efficiency | η [%] | 17.0 | 17.3 | 17.7 |

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

| ELECTRICAL DATA (NMOT) | | S81T255 | S81T260 | S81T265 |
|------------------------|---------------|---------|---------|---------|
| Power | P_{MPP} [W] | 189 | 192 | 196 |
| Voltage | V_{MPP} [V] | 24.6 | 24.7 | 24.7 |
| Current | I_{MPP} [A] | 7.62 | 7.77 | 7.92 |
| Open-circuit voltage | V_{OC} [V] | 30.3 | 30.4 | 30.5 |
| Short-circuit current | I_{SC} [A] | 8.11 | 8.27 | 8.43 |
| Efficiency | η [%] | 15.7 | 16.0 | 16.3 |

Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT: 45,5°C

| ELECTRICAL DATA (LOW IRRADIANCE) | | S81T255 | S81T260 | S81T265 |
|----------------------------------|---------------|---------|---------|---------|
| Power | P_{MPP} [W] | 50 | 51 | 52 |

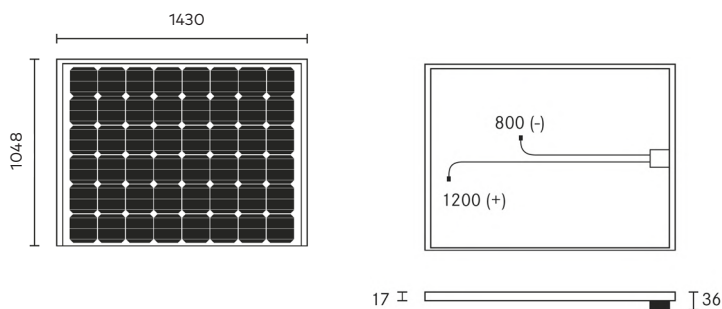
Electrical values measured under: 200 W/m²; 25°C; AM 1,5

| 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 | |

| CLASSIFICATION | | S81T255 | S81T260 | S81T265 |
|--|-----|---------|---------|---------|
| Classification range (positive classification) | [W] | 0/+4,99 | 0/+4,99 | 0/+4,99 |

DIMENSIONS [mm]



| BASIC MODULE DATA | | |
|-------------------------|------|--|
| Length x width x height | [mm] | 1048 x 1430 x 36 (grid dimension 1016 x 1412) |
| Weight | [kg] | 16 |
| Number of cells | | 48 |
| Cell size | [mm] | 158.75 x 158.75 |
| Cell material | | Monocrystalline Si, PERC |
| Number of bus bars | | 5 |
| Front sheet | | Solar glass (TSG) |
| Back sheet | | Polymer sheet, black |
| Frame material | | Al alloy, black |

| CERTIFICATION | |
|-----------------------------------|---------|
| Fire Resistance | Class C |
| Protection Against Electric Shock | II |
| IEC 61215:2016, IEC 61730:2016 | |

IEC 62804 – PID Resistance

LeTID Resistance

Snail trail free (AgNP Test)

IEC/TS 62782:2016 - Dynamic mechanical load testing

General Building Supervision Test Report against flying sparks and radiant heat (hard roofing)

| LOADS | | |
|---|--------------------|-------------------|
| Max. module pressure load (Testload) | [Pa] | 5400 ¹ |
| Max. module pressure load (Designload) ² | [Pa] | 3600 ¹ |
| Max. module suction load (Testload) | [Pa] | 2400 ¹ |
| Max. module suction load (Designload) ² | [Pa] | 1600 ¹ |
| Max. system voltage | [V _{DC}] | 1000 |
| Reverse current load | I_R [A] | 20 |

Mechanical load acc. to IEC/EN 61215:2016

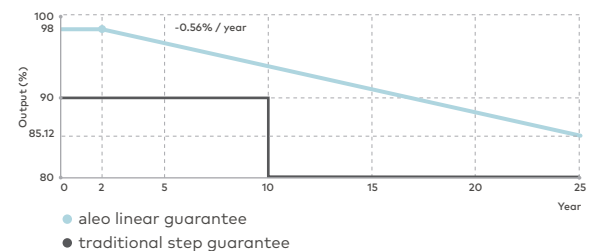
¹ Please observe the mounting conditions in the installation manual

² Testload/ Safety factor 1.5 = Designload

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

| GUARANTEE | |
|-------------------|-------------------|
| Product Guarantee | 25 years |
| Power Guarantee | 25 years – linear |

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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