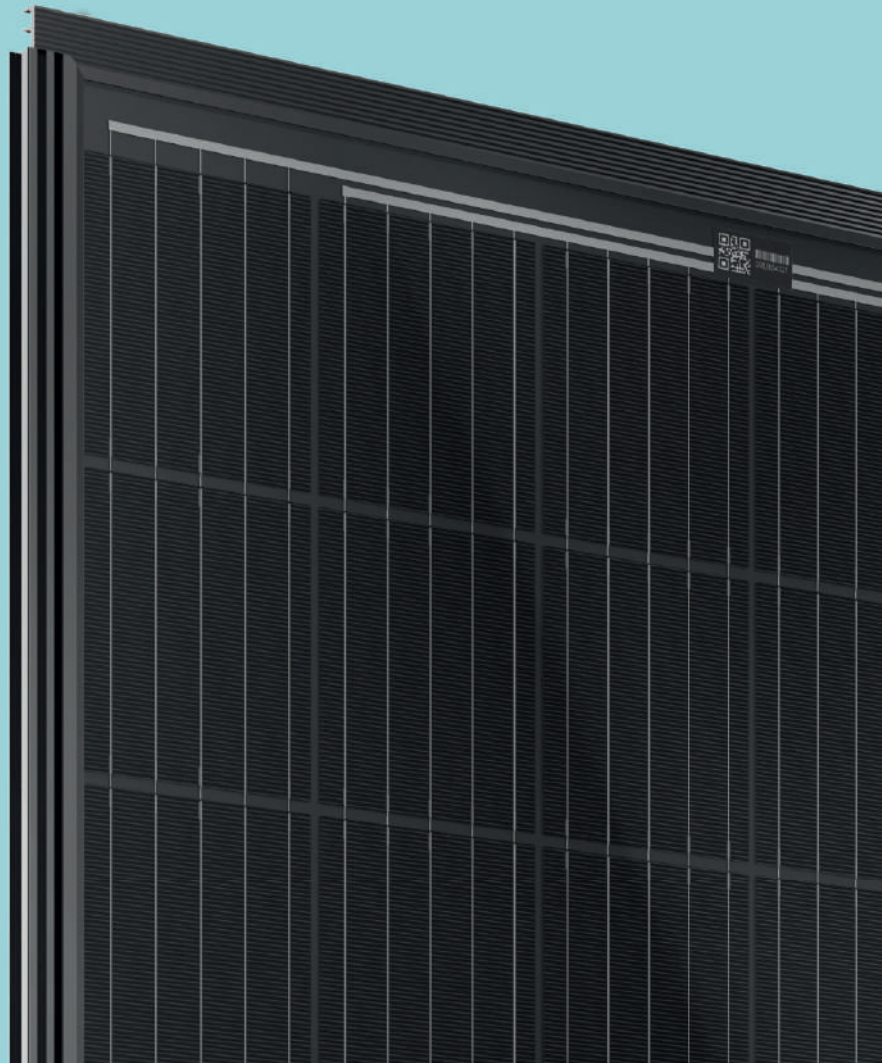
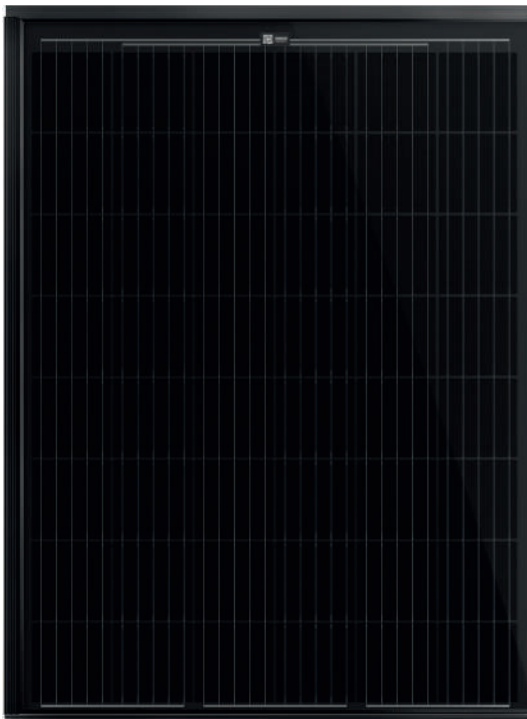


# S81 sol Premium

250 - 260 W



QUALITY SIGNED AND SEALED



**CONNECTABLE WITH OUR  
60 CELL MODULE / S83SOL**

**98% OF NOMINAL POWER GUARANTEED  
IN THE FIRST TWO YEARS**

**FULL PACKAGE: MODULES + FLASHINGS**



**PID FREE**

PID tested with excellent results  
under the harshest conditions



**CRAFTED WITH PASSION**



**25 YEARS PRODUCT GUARANTEE**



**HIGH RELIABILITY**

all modules are checked with high  
resolution electroluminescence  
measurements.  
100% of diodes are tested.



**25 YEARS LINEAR PERFORMANCE  
WARRANTY**

# aleo solar module S81 sol Premium

| ELECTRICAL DATA (STC) |               | S81T250 | S81T255 | S81T260 |
|-----------------------|---------------|---------|---------|---------|
| Rated power           | $P_{MPP}$ [W] | 250     | 255     | 260     |
| Rated voltage         | $V_{MPP}$ [V] | 26.0    | 26.3    | 26.5    |
| Rated current         | $I_{MPP}$ [A] | 9.62    | 9.70    | 9.80    |
| Open-circuit voltage  | $V_{OC}$ [V]  | 32.0    | 32.2    | 32.3    |
| Short-circuit current | $I_{SC}$ [A]  | 10.09   | 10.18   | 10.27   |
| Efficiency            | $\eta$ [%]    | 16.7    | 17.0    | 17.3    |

Electrical values measured under standard test conditions (STC): 1000 W/m<sup>2</sup>; 25°C; AM 1.5

| ELECTRICAL DATA (NMOT) |               | S81T250 | S81T255 | S81T260 |
|------------------------|---------------|---------|---------|---------|
| Power                  | $P_{MPP}$ [W] | 185     | 189     | 192     |
| Voltage                | $V_{MPP}$ [V] | 24.1    | 24.4    | 24.6    |
| Current                | $I_{MPP}$ [A] | 7.67    | 7.74    | 7.81    |
| Open-circuit voltage   | $V_{OC}$ [V]  | 30.0    | 30.1    | 30.2    |
| Short-circuit current  | $I_{SC}$ [A]  | 8.13    | 8.20    | 8.27    |
| Efficiency             | $\eta$ [%]    | 15.4    | 15.7    | 16.0    |

Electrical values measured under nominal operating conditions of cells: 800 W/m<sup>2</sup>; 20°C; AM 1.5; wind 1 m/s; Module temperature NMOT: 45,5°C

| ELECTRICAL DATA (LOW IRRADIANCE) |               | S81T250 | S81T255 | S81T260 |
|----------------------------------|---------------|---------|---------|---------|
| Power                            | $P_{MPP}$ [W] | 49      | 50      | 51      |

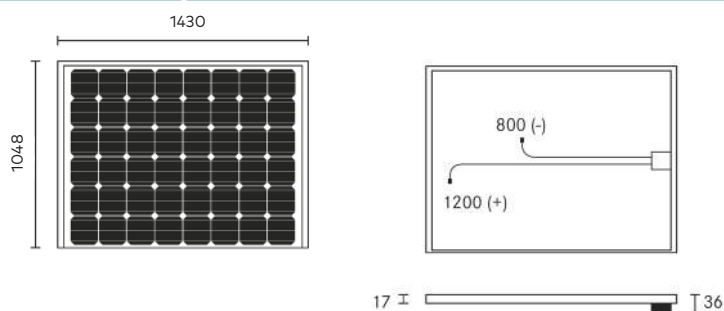
Electrical values measured under: 200 W/m<sup>2</sup>; 25°C; AM 1,5

| 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                                     | S81T250 | S81T255 | S81T260 |
|--|---------|---------|---------|
| 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<br>(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                                  |

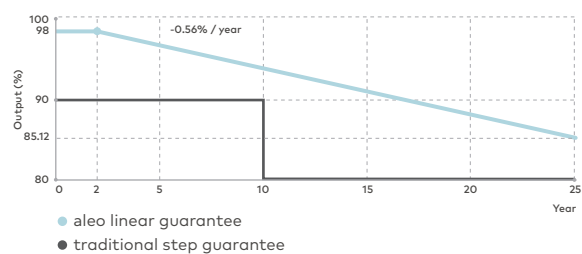
| CERTIFICATIONS AND WARRANTY       |  |
|-----------------------------------|--|
| Product Guarantee                 | 25 years   |
| Power Guarantee                   | 25 years – linear  |
| Fire Resistance                   | Class C  |
| Protection Against Electric Shock | II   |
| Certifications                    | § IEC 61215, IEC 61730<br>§ IEC 62716 – Ammonia Resistance<br>§ IEC 61701 – Salt mist Resistance<br>§ IEC 62804 – PID Resistance |

| LOADS   |                    |                   |
|---|--------------------|-------------------|
| Max. module pressure load (Testload)                | [Pa]               | 5400 <sup>1</sup> |
| Max. module pressure load (Designload) <sup>2</sup> | [Pa]               | 3600 <sup>1</sup> |
| Max. module suction load (Testload)                 | [Pa]               | 2400 <sup>1</sup> |
| Max. module suction load (Designload) <sup>2</sup>  | [Pa]               | 1600 <sup>1</sup> |
| Max. system voltage                                 | [V <sub>oc</sub> ] | 1000              |
| Reverse current load                                | $I_R$ [A]          | 20                |

Mechanical load acc. to IEC/EN 61215:2016  
<sup>1</sup> Please observe the mounting conditions in the installation manual  
<sup>2</sup> 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

## PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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**aleo**