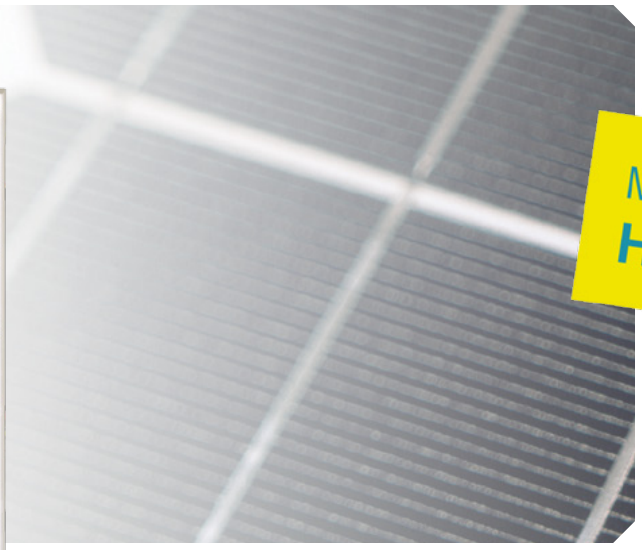
EN | EN | DE **220 - 230 W**

# Solar module aleo S25




## Strong performance

Due to the unique combination of its components, the highpower modules from aleo solar are particularly powerful. With the high degree ofefficiency and its excellent performance in low light conditions, the module aleo S25 allows maximum yields. This also means: less effort and less material for installation. The unique format also allows an optimal and flexible surface coverage. 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**
VDE (IEC 61215 Ed. 2, EC 61730-1 Ed. 1 and IEC 61730-2 Ed. 1) Preliminary!

**Our modules – Quality signed and sealed**

**Contact: aleo solar** | Marius-Eriksen-Straße 1 | 17291 Prenzlau | Germany
**www.aleo-solar.com**

# Solar module aleo S25

| Electrical data (STC) | | | S25L220 | S25L225 | S25L230 |
|---|---|---|---|---|---|
| Rated power | $P_{MPP}$ | [W] | 220 | 225 | 230 |
| Rated voltage | $V_{MPP}$ | [V] | 24.9 | 25.0 | 25.1 |
| Rated current | $I_{MPP}$ | [A] | 8.83 | 9.00 | 9.18 |
| Open-circuit voltage | $V_{OC}$ | [V] | 31.3 | 31.4 | 31.4 |
| Short-circuit current | $I_{SC}$ | [A] | 9.62 | 9.69 | 9.76 |
| Efficiency | η | [%] | 16.5 | 16.9 | 17.3 |

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

| Electrical data (NOCT) | | | S25L220 | S25L225 | S25L230 |
|---|---|---|---|---|---|
| Power | $P_{MPP}$ | [W] | 161 | 164 | 168 |
| Voltage | $V_{MPP}$ | [V] | 22.6 | 22.7 | 22.8 |
| Current | $I_{MPP}$ | [A] | 7.10 | 7.24 | 7.39 |
| Open-circuit voltage | $V_{OC}$ | [V] | 28.8 | 28.9 | 28.9 |
| Short-circuit current | $I_{SC}$ | [A] | 7.78 | 7.84 | 7.90 |
| Efficiency | η | [%] | 15.1 | 15.4 | 15.8 |

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. | < 2 |
| 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 |

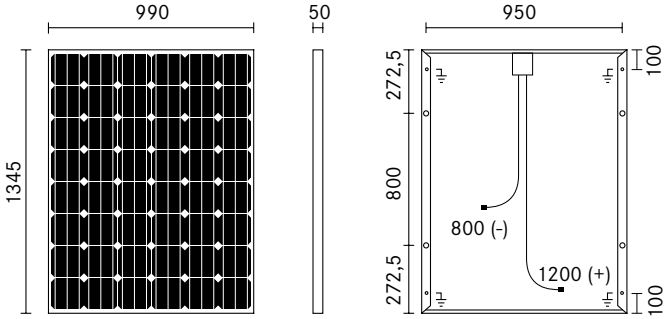
| Basic module data | | |
|---|---|---|
| Length x width x height | [mm³] | 1345 x 990 x 50 |
| Weight | [kg] | 16 |
| Number of cells | | 48 |
| Cell size | [mm²] | 156 x 156 |
| Cell material | | Monocrystalline Si |
| Front sheet | | Solar glass (TSG) |
| Back sheet | | Polymer sheet |
| Frame material | | Al alloy |

| Basic data junction box | | |
|---|---|---|
| Length x width x height | [mm³] | 148 x 123 x 27 132 x 107 x 27 |
| IP class | | IP65 |
| 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]**

**Please contact your authorised aleo dealer**




Detailed information about our warranties is available on our website | Subject to change without notice | Errors and omissions excepted | EN | EN | DE | 05/2014 | S25L.53 220-230 W