

Power classes

175 | 180 | 185 W



Good Reasons

- 10-year product guarantee
- 25-year power guarantee
- Positive power classification
- Best components according to German quality standards
- Professional customer service
- Certified according to IEC/EN 61215 (ed. 2)
- Certified according to IEC/EN 61730, protection class II
- German consumer report organisation Stiftung Warentest: top grade



aleo

aleo S_16

| Electrical data (STC) | | | S16.175 | S16.180 | S16.185 |
|-----------------------|-----------|------------------------------------|---------|---------|---------|
| Rated power | P_{MPP} | [W] | 175 | 180 | 185 |
| Rated voltage | U_{MPP} | [V] | 23.6 | 23.8 | 24.0 |
| Rated current | I_{MPP} | [A] | 7.41 | 7.55 | 7.70 |
| Open-circuit voltage | U_{OC} | [V] | 30.0 | 30.2 | 30.4 |
| Short-circuit current | I_{SC} | [A] | 7.95 | 8.07 | 8.20 |
| Efficiency | η | [%] | 12.7 | 13.1 | 13.4 |
| Area-to-power ratio | A_p | [m ² /kW _p] | 7.87 | 7.65 | 7.45 |

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

| Electrical data (NOCT) | | | S16.175 | S16.180 | S16.185 |
|------------------------|-----------|-----|---------|---------|---------|
| Power | P_{MPP} | [W] | 125 | 128 | 132 |
| Voltage | U_{MPP} | [V] | 21.0 | 21.2 | 21.3 |
| Current | I_{MPP} | [A] | 5.94 | 6.06 | 6.17 |
| Open-circuit voltage | U_{OC} | [V] | 27.3 | 27.5 | 27.8 |
| Short-circuit current | I_{SC} | [A] | 6.43 | 6.52 | 6.60 |
| Efficiency | η | [%] | 11.3 | 11.6 | 11.9 |

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

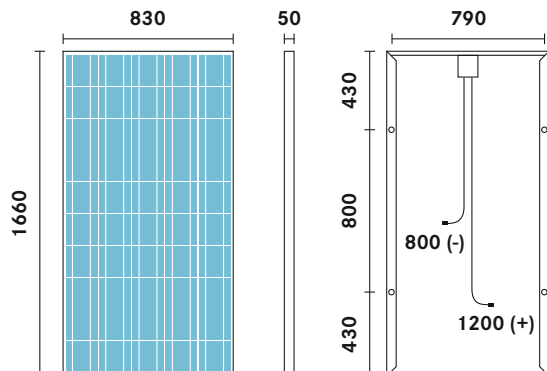
| Additional electrical data | | |
|--|-----|----------|
| Reduction of STC efficiency from 1000 W/m ² to 200 W/m ² | [%] | < 6 |
| Classification range (positive classification) | [W] | -0/+4.99 |
| Measurement accuracy of P_{MPP} under STC | [%] | -3/+3 |
| Accuracy of other electrical values | [%] | -10/+10 |

| Loads | | |
|------------------------|--------------------|------|
| Mechanical load | [Pa] | 5400 |
| Maximum system voltage | [V _{DC}] | 1000 |
| Reverse current load | I_R [A] | 15 |

Mechanical load acc. to IEC/EN 61215

| Temperature coefficients | | | |
|---|--------------------|-------|-------|
| 1 st temperature coefficient | $\alpha (I_{SC})$ | [%/K] | +0.04 |
| 2 nd temperature coefficient | $\beta (U_{OC})$ | [%/K] | -0.34 |
| 3 rd temperature coefficient | $\gamma (P_{MPP})$ | [%/K] | -0.46 |

Dimensions [mm]



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Efficiency relating to gross module area

| Basic data | | |
|-------------------------|--------------------|--------------------|
| Length x width x height | [mm ³] | 1660 x 830 x 50 |
| Weight | [kg] | 17 |
| Number of cells | | 50 |
| Cell size | [mm ²] | 156 x 156 |
| Cell material | | Polycrystalline Si |
| Front sheet | | Solar glass (TSG) |
| Back sheet | | Polymer |
| Frame material | | Al alloy |
| Cable length | [mm] | 1200 (+), 800 (-) |
| Connectors | | MC3 class |
| IP class | | IP65 |
| Bypass diodes | | 3 |

Detailed information regarding our product and power guarantees can be requested from us at any time. It is also available online at www.aleo-solar.com.

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Please contact your authorised aleo dealer