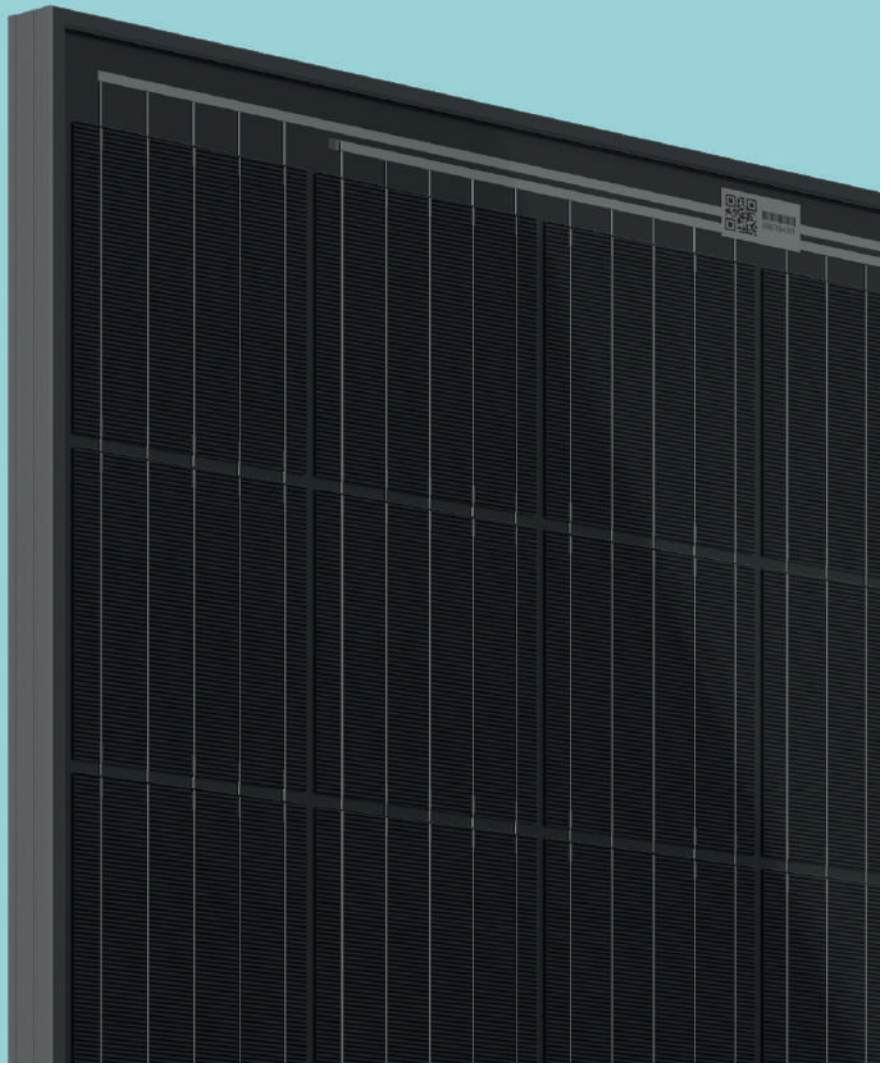
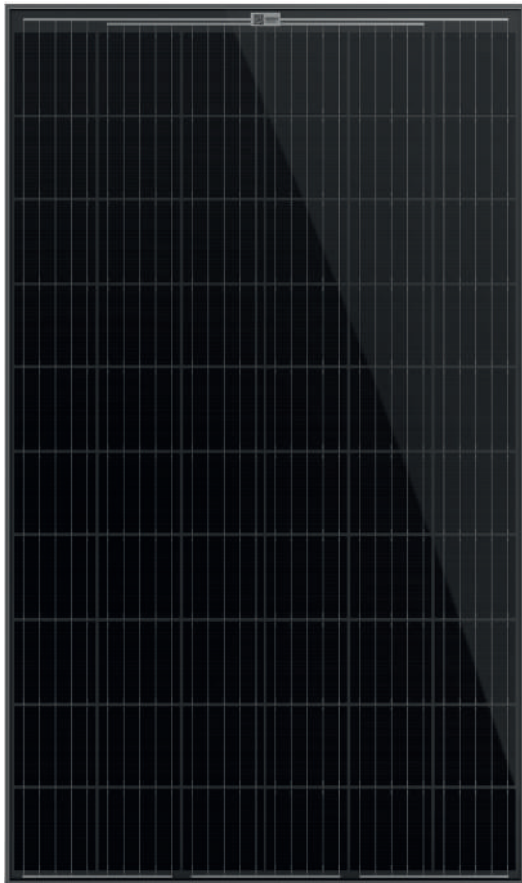


X83 Premium

333 - 340 W



QUALITY SIGNED AND SEALED



ALL BLACK FINISHING

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

25 YEAR PRODUCT GUARANTEE

25 YEARS PRODUCT GUARANTEE

**25 YEARS LINEAR
PERFORMANCE WARRANTY**



CRAFTED WITH PASSION



CONSTANTLY HIGH CELL QUALITY
through strict quality examinations
by high-resolution electroluminescence
measurements.
100% of diodes are tested.



- MADE IN GERMANY -

aleo solar module X83 Premium

| ELECTRICAL DATA (STC) | | X83L333 | X83L340 |
|-----------------------|---------------|---------|---------|
| Rated power | P_{MPP} [W] | 333 | 340 |
| Rated voltage | V_{MPP} [V] | 33.4 | 33.7 |
| Rated current | I_{MPP} [A] | 9.97 | 10.09 |
| Open-circuit voltage | V_{OC} [V] | 40.8 | 41.0 |
| Short-circuit current | I_{SC} [A] | 10.44 | 10.56 |
| Efficiency | η [%] | 19.0 | 19.4 |

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

| ELECTRICAL DATA (NMOT) | | X83L333 | X83L340 |
|------------------------|---------------|---------|---------|
| Power | P_{MPP} [W] | 246 | 251 |
| Voltage | V_{MPP} [V] | 30.9 | 31.3 |
| Current | I_{MPP} [A] | 7.95 | 8.05 |
| Open-circuit voltage | V_{OC} [V] | 38.1 | 35.4 |
| Short-circuit current | I_{SC} [A] | 8.41 | 8.51 |
| Efficiency | η [%] | 17.5 | 17.9 |

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

| ELECTRICAL DATA (LOW IRRADIANCE) | | X83L333 | X83L340 |
|----------------------------------|---------------|---------|---------|
| Power | P_{MPP} [W] | 65 | 66 |

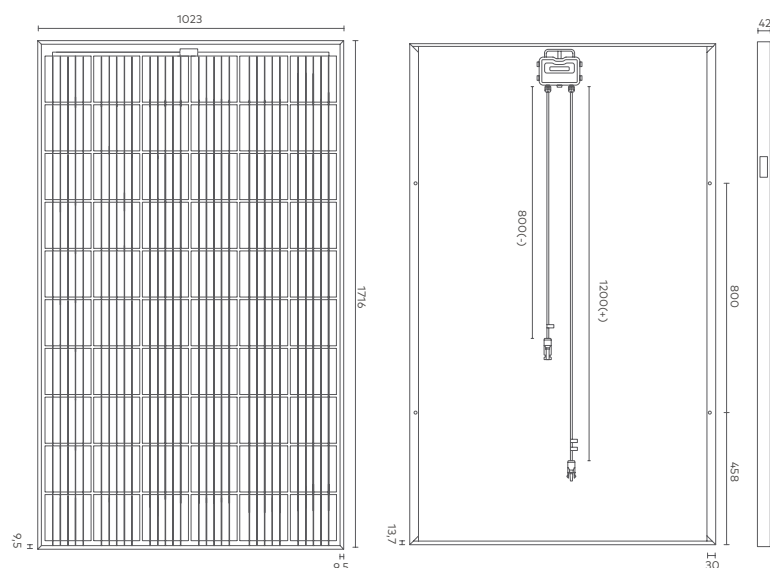
Electrical values measured under: 200 W/m²; 25°C; AM 1.5

| 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 | | Genuine MC4 (PV-KST4-EVO) | |
| Bypass diodes | | 3 | |

| CLASSIFICATION | | X83L333 | X83L340 |
|--|-----|---------|---------|
| Classification range (positive classification) | [W] | 0/+6.99 | 0/+4.99 |

DIMENSIONS [mm]



| BASIC MODULE DATA | | |
|-------------------------|------|--------------------------|
| Length x width x height | [mm] | 1716 x 1023 x 42 |
| Weight | [kg] | 19.5 |
| Number of cells | | 60 |
| Cell size | [mm] | 158.75 x 158.75 |
| Cell material | | Monocrystalline Si, PERC |
| Number of bus bars | | 5 |
| Front sheet | | 3.2 mm Solar glass (TSG) |
| Back sheet | | Polymer sheet, black |
| Frame material | | Al alloy, black |

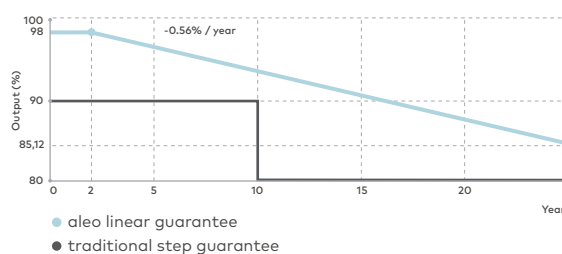
| CERTIFICATIONS AND GUARANTEES | |
|-----------------------------------|----------------------|
| Product Guarantee | 25 years |
| Power Guarantee | 25 years – Linear |
| Fire Resistance | Class C |
| Protection Against Electric Shock | II |
| Certifications | IEC 61215, IEC 61730 |

| LOADS | | |
|---|--------------------|-------------------|
| Max. module pressure load (Testload) | [Pa] | 8000 ¹ |
| Max. module pressure load (Designload) ² | [Pa] | 5333 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
¹Please observe the mounting conditions in the installation manual
²Testload/ 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

ALEO SOLAR GMBH
 Marius-Eriksen-Straße 1
 17291 PRENZLAU
 GERMANY

CONTACT
 +49 3984-8328-0
 info@aleo-solar.de
 www.aleo-solar.com

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