

X63 Premium

330 - 340 W

 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

OUR QUALITY IS CERTIFIED

This module is certified according to the latest international standards: **IEC 61215:2016** and **IEC 61730:2016**.

Additionally, this module obtained the following certificates:

- + Snail Trail Free
- + Salt mist corrosion resistance
- + Ammonia corrosion resistance
- + Sand and dust resistance
- + PID resistance
- + LeTID resistance
- + Hail resistance class 4
- + Pressure load: 8000 Pa - suction load: 5400 Pa
- + Dynamic mechanical load test

aleo solar module X63 Premium

| ELECTRICAL DATA (STC) | | X63L330 | X63L333 | X63L340 | BASIC MODULE DATA | |
|-----------------------|---------------|---------|---------|---------|-------------------------|--------------------------|
| Rated power | P_{MPP} [W] | 330 | 333 | 340 | Length x width x height | [mm] 1716 x 1023 x 42 |
| Rated voltage | V_{MPP} [V] | 33.1 | 33.2 | 33.5 | Weight | [kg] 19.5 |
| Rated current | I_{MPP} [A] | 9.97 | 10.03 | 10.15 | Number of cells | 60 |
| Open-circuit voltage | V_{OC} [V] | 40.6 | 40.7 | 40.8 | Cell size | [mm] 158.75 x 158.75 |
| Short-circuit current | I_{SC} [A] | 10.49 | 10.54 | 10.70 | Cell material | Monocrystalline Si, PERC |
| Efficiency | η [%] | 18.8 | 19.0 | 19.4 | Number of bus bars | 5 |

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

| ELECTRICAL DATA (NMOT) | | X63L330 | X63L333 | X63L340 |
|------------------------|---------------|---------|---------|---------|
| Power | P_{MPP} [W] | 244 | 246 | 251 |
| Voltage | V_{MPP} [V] | 30.7 | 30.8 | 31.1 |
| Current | I_{MPP} [A] | 7.95 | 8.00 | 8.10 |
| Open-circuit voltage | V_{OC} [V] | 38.0 | 38.0 | 38.1 |
| Short-circuit current | I_{SC} [A] | 8.45 | 8.49 | 8.62 |
| Efficiency | η [%] | 17.4 | 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 : 44.5°C

| ELECTRICAL DATA (LOW IRRADIANCE) | | X63L330 | X63L333 | X63L340 |
|----------------------------------|---------------|---------|---------|---------|
| Power | P_{MPP} [W] | 64 | 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 |
| Bypass diodes | 3 |

| CLASSIFICATION | X63L330 | X63L333 | X63L340 |
|--|---------|---------|---------|
| Classification range (positive classification) [W] | 0/+2.99 | 0/+6.99 | 0/+4.99 |

| | |
|----------------|--------------------------|
| Front sheet | 3.2 mm Solar glass (TSG) |
| Back sheet | Polymer sheet, white |
| Frame material | Al alloy, black |

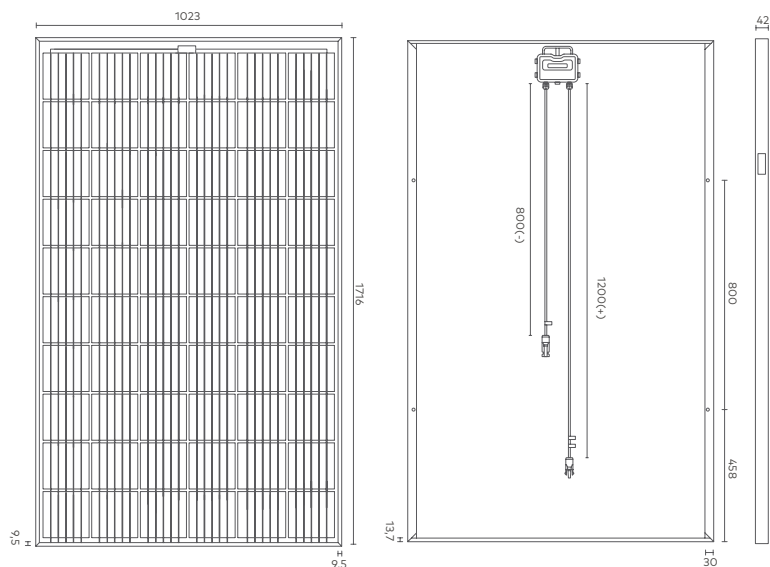
| CERTIFICATIONS | |
|---|---------|
| Fire Resistance | Class C |
| Protection Against Electric Shock | II |
| IEC 61215:2016, IEC 61730:2016 | |
| IEC 62716 – Ammonia Resistance | |
| IEC 61701 – Salt mist Resistance | |
| IEC 62804 – PID Resistance | |
| LeTID Resistance | |
| IEC/TS 62782:2016 - Dynamic mechanical load testing | |
| IEC 60068-2-68:1994 - Sand and Dust test | |
| Hail resistance class 4 (40 mm hailstones) | |
| Snail trail free (AgNP Test) | |

| LOADS | | |
|---|--------------------|-------------------|
| Max. module pressure load (Testload) | [Pa] | 8000 ¹ |
| Max. module pressure load (Designload) ² | [Pa] | 5333 ¹ |
| Max. module suction load (Testload) | [Pa] | 5400 ¹ |
| Max. module suction load (Designload) ² | [Pa] | 3600 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

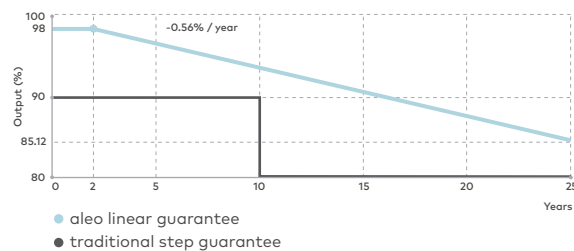
DIMENSIONS [mm]



GUARANTEES

| | |
|-------------------|-------------------|
| Product Guarantee | 25 years |
| Power Guarantee | 25 years – Linear |

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER

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