

XN182BP

Monocrystalline X-Cells

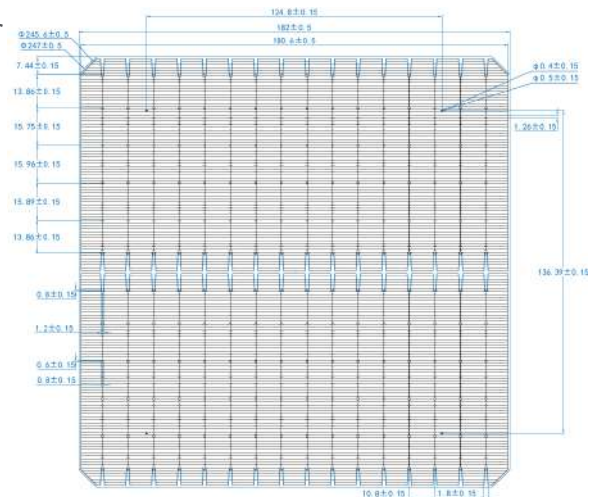
Bifacial Solar Cell - Aquila 2.PA

Dimension	182 mm x 182 mm ± 0.25 mm
Thickness(Si)	150 +20/-30 μm
Front	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
	0.06±0.05 mm silver busbars
Back	Polished surface and dark silicon nitride anti-reflection coatings
	1.25±0.1 mm silver busbars with discontinuous soldering pads



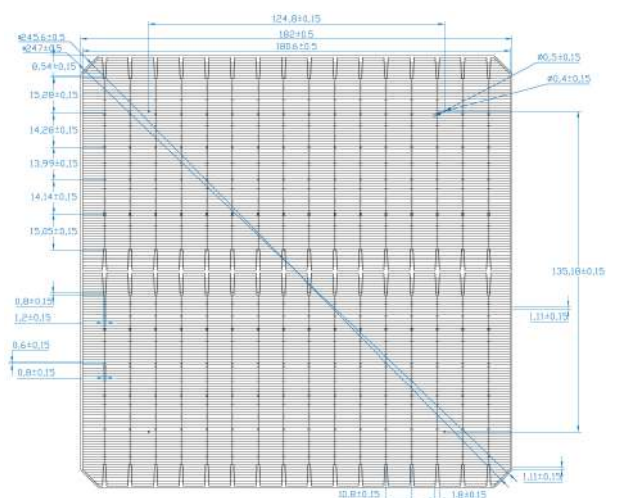
► Features

- > High conversion efficiencies resulting in superior power output performance
- > No light induced degradation (LID)
- > Outstanding power output even in low light or high temperature conditions
- > Optimized design for ease of soldering and lamination
- > Long-term stability, reliability and performance
- > Low breakage rate
- > Uniform color



► Production and Quality Control

- > Precision cell efficiency sorting procedures
- > Stringent criteria for color uniformity and appearance
- > Reverse current and shunt resistance screening
- > ISO 9001, ISO 14001, and ISO 45001 certificated
- > Calibrated against Fraunhofer ISE



* See the reverse side for more detail

Electrical Performance

Efficiency Code		255	254	253	252	251	250
Efficiency	Eff (%)	25.50	25.40	25.30	25.20	25.10	25.00
Power	P_{pm} (W)	8.42	8.38	8.35	8.32	8.29	8.25
Max. Power Current	I_{pm} (A)	13.651	13.606	13.577	13.553	13.518	13.475
Short Circuit Current	I_{sc} (A)	14.218	14.183	14.148	14.113	14.078	14.035
Max. Power Voltage	V_{pm} (V)	0.6168	0.6159	0.6150	0.6141	0.6131	0.6122
Open Circuit Voltage	V_{oc} (V)	0.7178	0.7169	0.7160	0.7151	0.7141	0.7132

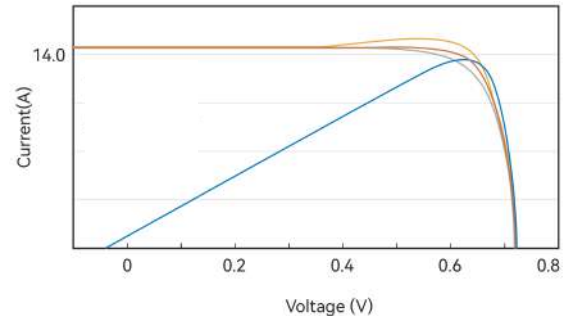
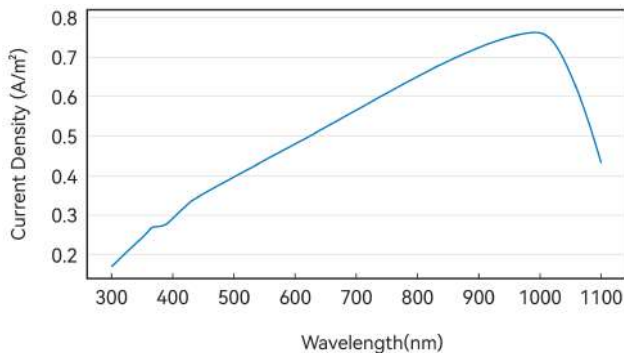
Efficiency Code		249	248	247	246	245	244
Efficiency	Eff (%)	24.90	24.80	24.70	24.60	24.50	24.40
Power	P_{pm} (W)	8.22	8.19	8.16	8.12	8.09	8.06
Max. Power Current	I_{pm} (A)	13.440	13.405	13.370	13.335	13.300	13.265
Short Circuit Current	I_{sc} (A)	14.001	13.965	13.930	13.895	13.860	13.825
Max. Power Voltage	V_{pm} (V)	0.6114	0.6106	0.6097	0.6089	0.6081	0.6073
Open Circuit Voltage	V_{oc} (V)	0.7124	0.7116	0.7107	0.7099	0.7091	0.7083

Standard test condition : AM1.5, 1000W/m², 25°C. Average accuracy of all tested figures is ±1.5% rel.

Temperature Coefficients

Current Temperature Coefficient	0.045 %/°C
Voltage Temperature Coefficient	-0.25 %/°C
Power Temperature Coefficient	-0.30 %/°C

Standard test condition : AM1.5, 1000W/m², 25°C.

IV Curve

Spectral Response(SR)


Specifications subject to change without prior notice.
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