

SOLAR LONG

Solar Long PV-Tech (Cambodia) Co.,Ltd.

M182 10BB

Monocrystalline Bifacial cells

Size	182mm*182mm ± 0.25 mm	TkVoltage: -0.27%/K
Thickness	175 $\pm$ 17.5um	TkCurrent: +0.03%/K
Front	Busbar width (Silver): 0.06 ± 0.03 mm Finger grids (silver): 150 ± 15 Blue anti-reflecting coating (silicon nitride)	TkPower: -0.35%/K
Rear	Width of back electrode (silver): 1.2 ± 0.3 mm Aluminium Busbar Mosaic Finger grids (aluminum): 170 ± 17	Rsh > 50 Ω , Irev2 < 1A

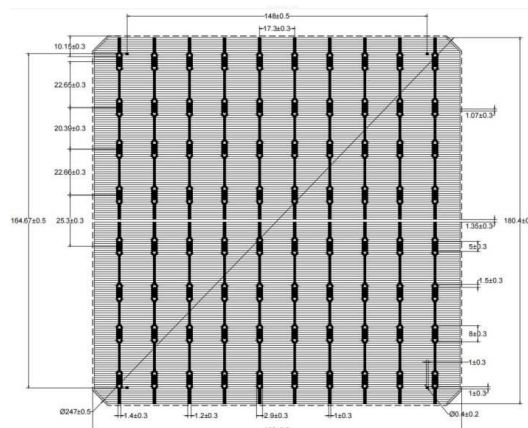
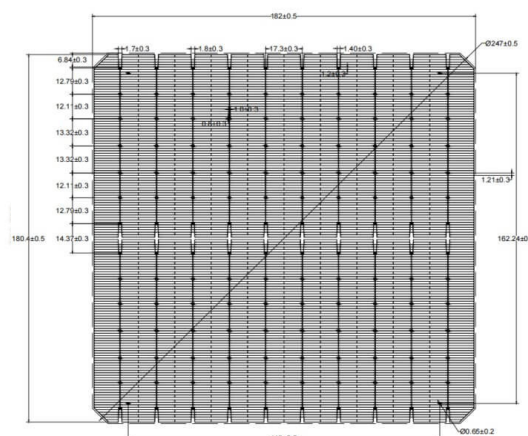


► Features

- > High conversion efficiencies resulting in superior power output performance
- > 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
- > ISO9001, ISO14001 and OHSAS 18001 certificated
- > Calibrated against Fraunhofer ISE



*See the reverse side for more detail.

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► Electrical Performance

Efficiency Code		23.0	22.9	22.8	22.7	22.6	22.5
Efficiency	Eff(%)	23.00	22.90	22.80	22.70	22.60	22.50
Power	Ppm(W)	7.59	7.56	7.53	7.49	7.46	7.43
Max. Power Current	Ipm(A)	12.784	12.749	12.715	12.681	12.646	12.612
Short Circuit Current	Isc(A)	13.370	13.338	13.305	13.273	13.240	13.207
Max. Power Voltage	Vpm(V)	0.594	0.593	0.592	0.591	0.590	0.589
Open Circuit Voltage	Voc(V)	0.690	0.689	0.688	0.687	0.686	0.685
Efficiency Code		22.4	22.3	22.2	22.1	22.0	21.9
Efficiency	Eff(%)	22.40	22.30	22.20	22.10	22.00	21.90
Power	Ppm(W)	7.40	7.36	7.33	7.30	7.26	7.230
Max. Power Current	Ipm(A)	12.577	12.542	12.507	12.472	12.437	12.402
Short Circuit Current	Isc(A)	13.174	13.141	13.107	13.074	13.040	13.007
Max. Power Voltage	Vpm(V)	0.588	0.587	0.586	0.585	0.584	0.583
Open Circuit Voltage	Voc(V)	0.588	0.587	0.586	0.585	0.584	0.583

Standard test condition :AM1.5,1000W/m², 25°CAverage accuracy of all tested figures is $\pm 1.5\%$ rel.

► Temperature Coefficients

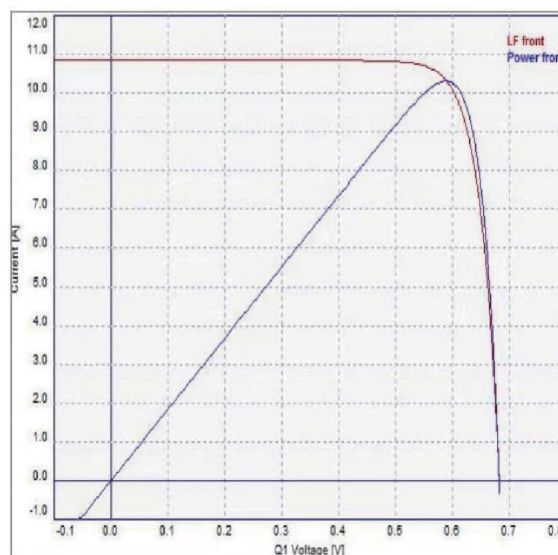
Current Temperature Coefficient	$\alpha(I_{sc})$	+0.03%/K
Voltage Temperature Coefficient	$\beta(V_{oc})$	-0.27%/K
Power Temperature Coefficient	$\gamma(P_{max})$	-0.35%/K

Light Strength Reliability

Intensity(w/m ²)	Uoc	Isc
1000	1.000	1.000
800	0.99	0.8
600	0.98	0.6
400	0.96	0.4
200	0.93	0.2

Uoc(Isc) measured at 1000w/m², the extent of Uoc(Isc) decreasing with light intensity.

► IV Curve



Specifications subject to change without prior notice.
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