

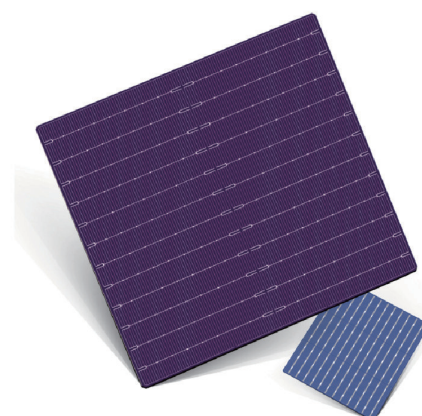
SOLAR LONG

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

M210 12BB

Monocrystalline Bifacial cells

Size	210mm*210mm±0.25mm	TkVoltage:-0.36%/K
Thickness	175±17.5um	TkCurrent:+0.07%/K
Front	Busbar width (Silver):12 * 0.05mm Finger grids : 186 Blue anti-reflecting coating (silicon oxide nitride)	TkPower:-0.38%/K
Rear	Width of soldering pads (silver): 2.1±0.3mm Blue anti-reflecting coating (silicon oxide nitride) Finger grids (aluminum): 186	Rsh≥30Ω, Irev2≤1A

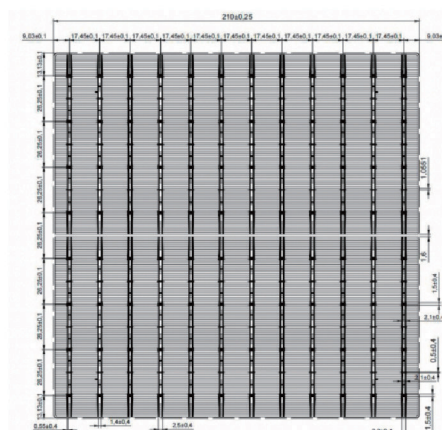
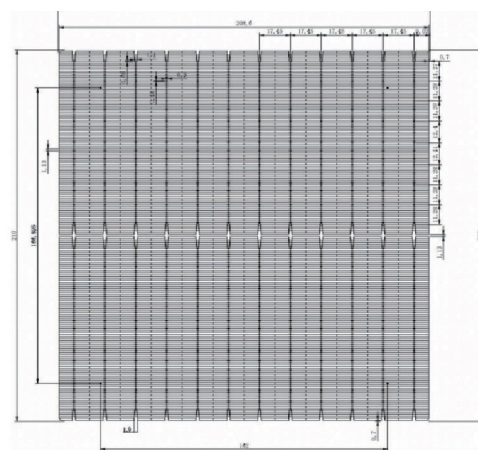


► Features

- > 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		22.8	22.7	22.6	22.5
Efficiency	Eff(%)	22.80	22.70	22.60	22.50
Power	Ppm(W)	10.05	10.01	9.97	9.92
Max. Power Current	Ipm(A)	17.305	17.288	17.271	17.256
Short Circuit Current	Isc(A)	18.0631	18.0452	17.9952	17.9755
Max. Power Voltage	Vpm(V)	0.581	0.579	0.577	0.575
Open Circuit Voltage	Voc(V)	0.6827	0.6822	0.6816	0.6802
Efficiency Code		22.4	22.3	22.2	22.1
Efficiency	Eff(%)	22.40	22.30	22.20	22.10
Power	Ppm(W)	9.88	9.83	9.79	9.75
Max. Power Current	Ipm(A)	17.9215	17.8819	17.8381	17.7887
Short Circuit Current	Isc(A)	13.174	13.141	13.107	13.074
Max. Power Voltage	Vpm(V)	0.573	0.571	0.569	0.567
Open Circuit Voltage	Voc(V)	0.6796	0.6785	0.6779	0.677

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

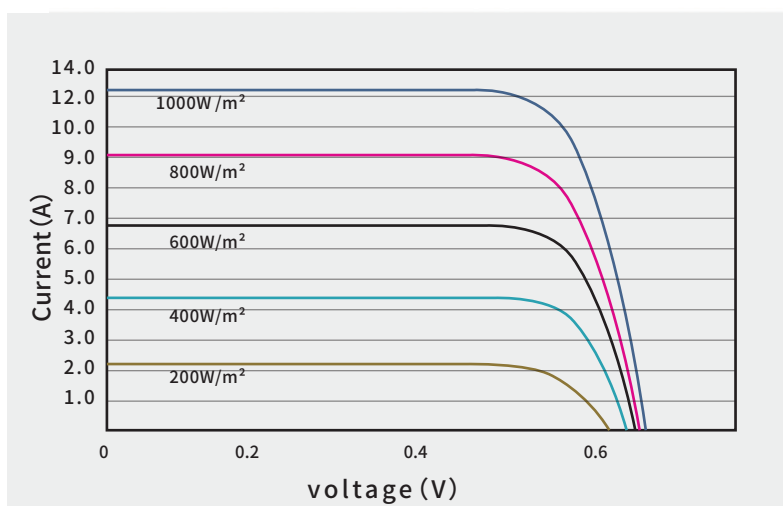
► Temperature Coefficients

Current Temperature Coefficient	$\alpha(Isc)$	+0.07%/K
Voltage Temperature Coefficient	$\beta(Voc)$	-0.36%/K
Power Temperature Coefficient	$\gamma(Pmax)$	-0.38%/K

► IV Curve

Light Intensityght Intensity)		
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

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



Specifications subject to change without prior notice.
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