

Mono-5BB

PERCIUM

BIFACIAL MONOCRYSTALLINE SILICON SOLAR CELLS

JUST Solar High-efficiency Mono cell using the unique bifacial light receiving structure and the Back Side Passivated Emitter rear contact. Manufacturing modules with more than **310Wp (6x10)** and **370Wp (6x12)** power output becomes easier than ever.

MECHANICAL DATA AND DESIGN

Format	157.5mm×157.5mm±0.5mm
Thickness	190μm±30μm
Front(-)	0.7mm bus bars(silver), Silicon oxide + blue silicon nitride compound anti-reflection coating (PID Free)
Back(+)	1.5mm wide soldering pads(silver) and 3.2mm wide soldering pads (aluminum) , back surface passivated Emitter (AlOx and SiNx dual layer) rear contact

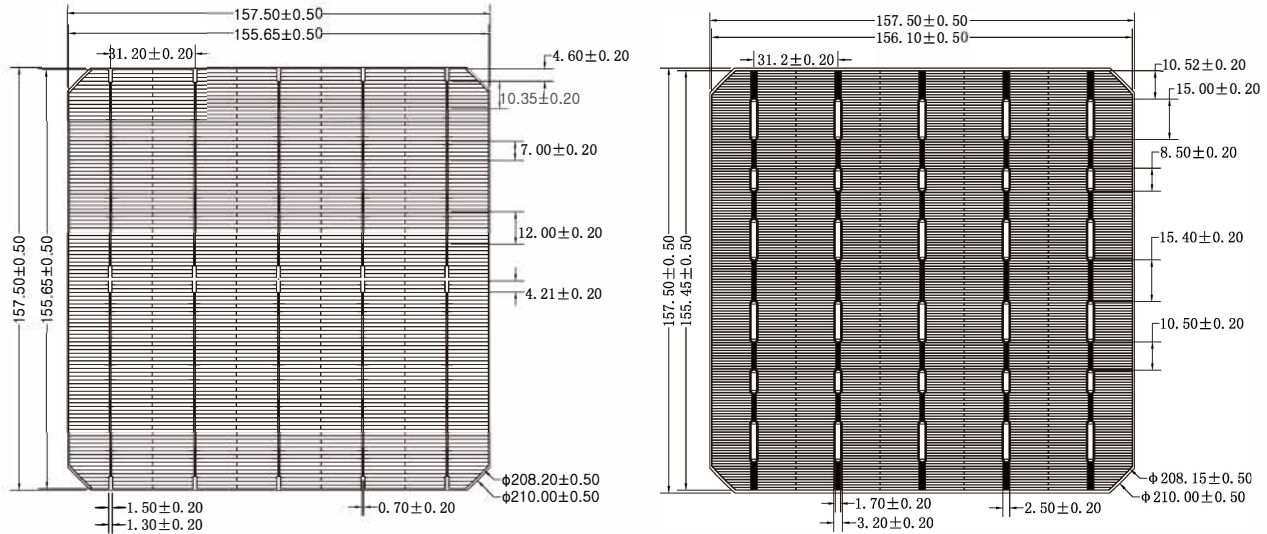
TEMPERATURE COEFFICIENTS

TkVoltage	-0.36%/K
TkCurrent	+0.04%/K
TkPower	-0.36%/K

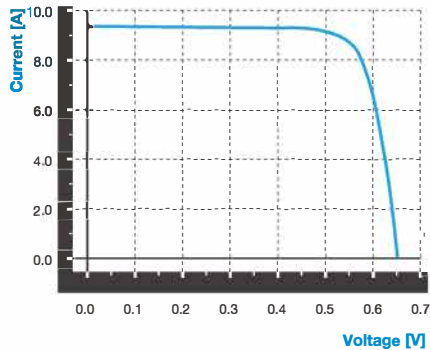
No.	Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
12	22.10-23.00	5.44	0.576	9.452	0.679	10.013	80.07
11	22.00-22.10	5.42	0.575	9.435	0.679	10.000	79.90
10	21.90-22.00	5.40	0.574	9.419	0.678	9.988	79.77
09	21.80-21.90	5.38	0.572	9.404	0.677	9.976	79.66
08	21.70-21.80	5.36	0.571	9.388	0.676	9.962	79.57
07	21.60-21.70	5.33	0.568	9.386	0.673	9.962	79.51
06	21.50-21.60	5.31	0.565	9.387	0.671	9.962	79.44
05	21.40-21.50	5.28	0.564	9.366	0.670	9.942	79.31
04	21.30-21.40	5.26	0.561	9.369	0.667	9.941	79.26
03	21.20-21.30	5.24	0.556	9.411	0.663	9.970	79.23
02	21.10-21.20	5.21	0.554	9.405	0.661	9.956	79.08
01	21.00-21.10	5.18	0.552	9.386	0.659	9.950	78.95

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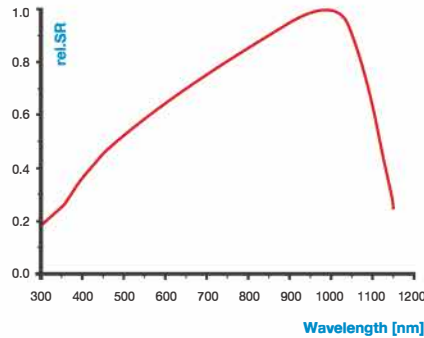
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IV CURVE



SPECTRAL RESPONSE



INTENSITY DEPENDENCE

Intensity [W/m ²]	Isc*	Voc*	Pmpp
1000	1.00	1.00	1.00
900	0.90	1.00	0.90
800	0.80	0.99	0.79
500	0.50	0.97	0.49
300	0.30	0.95	0.29
200	0.20	0.93	0.19

*Ratio of Voc(Isc) at reduced intensity to Voc(Isc) at 1000 W/m²