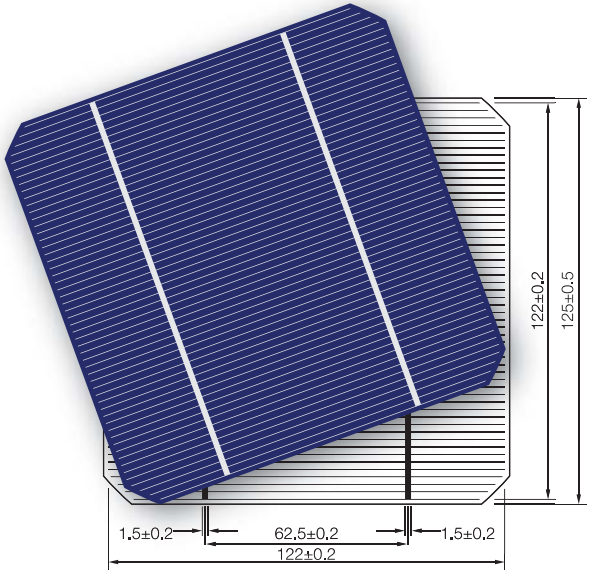
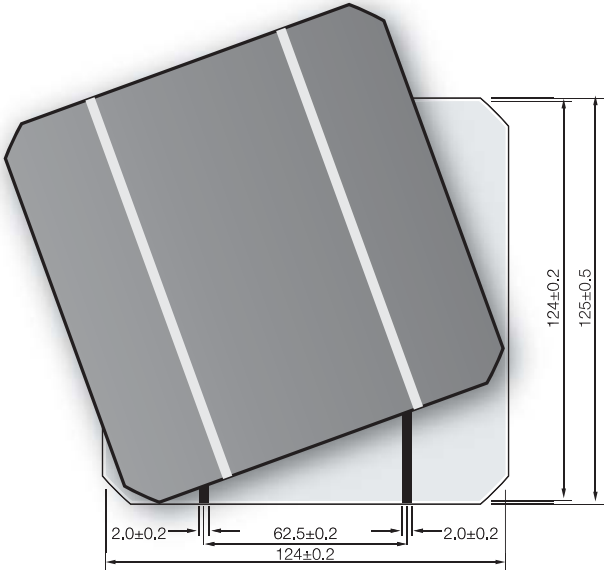
JA SOLAR

JAC M5SL 2BB
MONOCRYSTALLINE SILICON SOLAR CELLS

SECIUM

The new cost effective, high efficiency solar cells enable substantially better spectral response at blue wavelength. Manufacturing modules with more than 200W (6×12) power output becomes easier than ever.





* For reference only

MECHANICAL DATA AND DESIGN	
Format	125mm×125mm±0.5mm
Thickness	200μm±30μm
Front(-)	1.5mm bus bars(silver), blue anti-reflecting coating(silicon nitride)
Back(+)	2mm wide soldering pads(silver), back surface field(aluminum)

TEMPERATURE COEFFICIENTS	
TkVoltage	-0.241%/K
TkCurrent	+0.033%/K
TkPower	-0.37%/K

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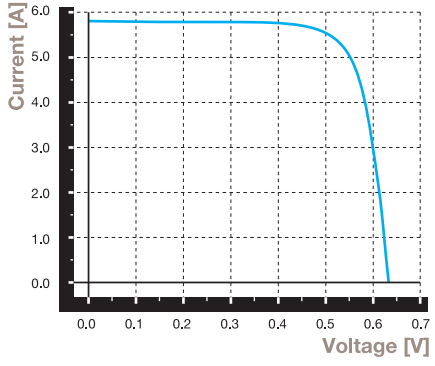
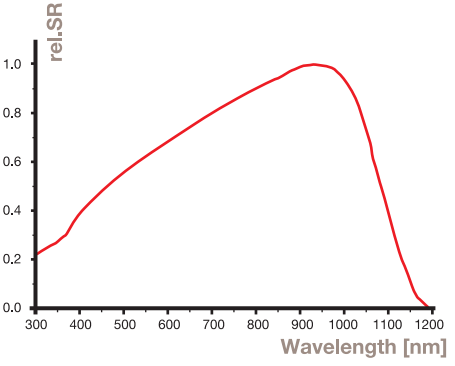
No.	Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
10	18.80-19.00	2.91	0.537	5.421	0.641	5.777	78.61
09	18.60-18.80	2.88	0.535	5.386	0.638	5.762	78.38
08	18.40-18.60	2.85	0.532	5.359	0.637	5.727	78.15
07	18.20-18.40	2.82	0.529	5.333	0.635	5.707	77.85
06	18.00-18.20	2.79	0.527	5.297	0.634	5.693	77.34
05	17.80-18.00	2.76	0.525	5.260	0.633	5.682	76.78
04	17.60-17.80	2.73	0.521	5.243	0.632	5.671	76.22
03	17.40-17.60	2.70	0.518	5.215	0.631	5.661	75.62
02	17.20-17.40	2.66	0.513	5.188	0.630	5.651	74.76
01	17.00-17.20	2.63	0.510	5.160	0.629	5.646	74.12

IV CURVE



*calibrated against fraunhofer ISE freiburg

SPECTRAL RESPONSE



INTENSITY DEPENDENCE

Intensity [W/m²]	Isc*	Voc*
1000	1.0	1.000
900	0.9	0.994
500	0.5	0.969
300	0.3	0.946
200	0.2	0.929

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

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