



125mm Monocrystalline silicon solar cell (2BB)

Mechanical Data And Design

Format	125mmx125mm 0.5mm
Thickness(Wafer)	180μm±20μm and 190μm±20μm
Front(-)	1.8mm bus bars(silver). Blue anti-reflection coating(silicon nitride)
Back(+)	3mm wide soldering pads(silver) back surface field(aluminum)

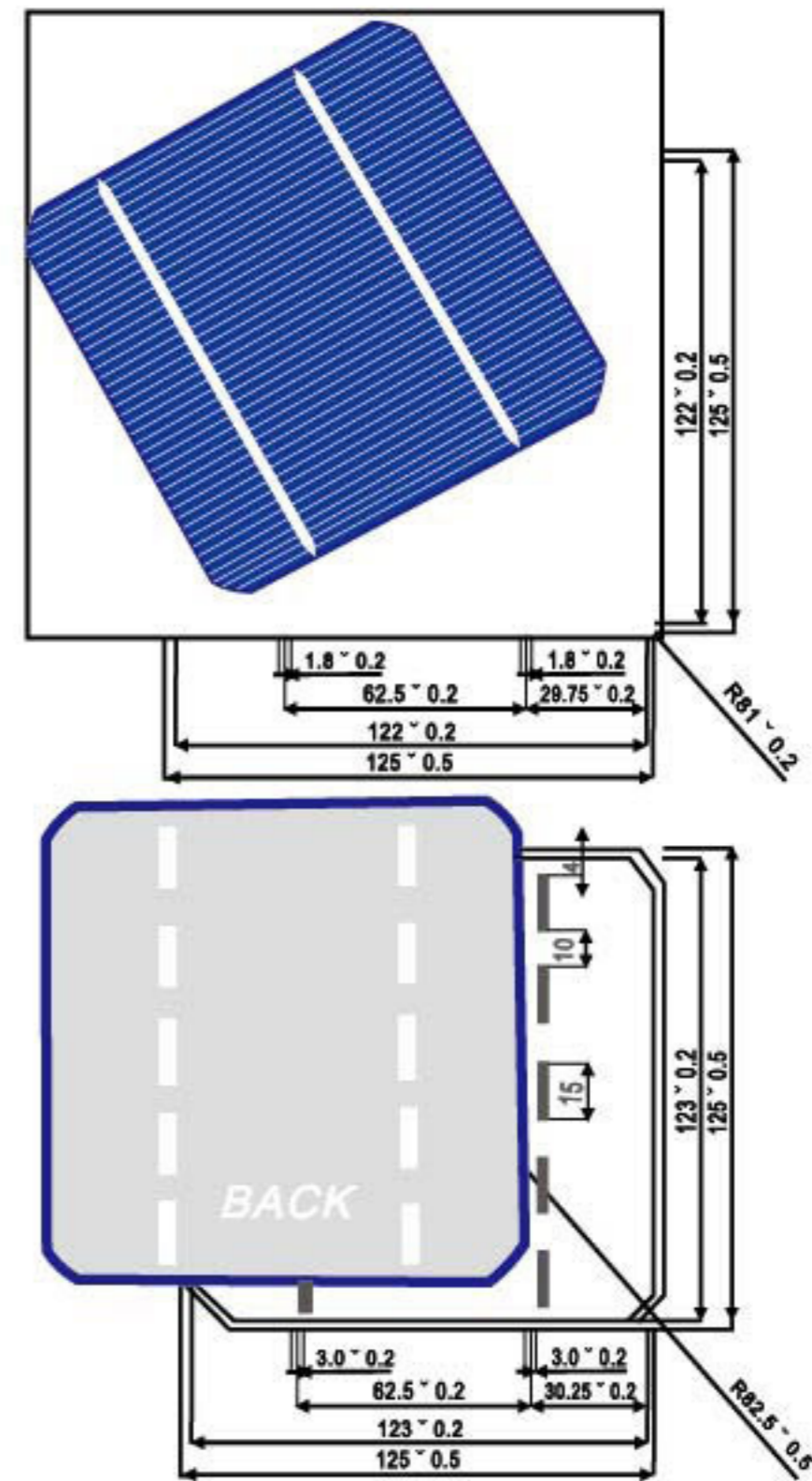
Temperature Coefficients

Voc.Temp.coef. %/K	-0.329%/K
Isc.Temp.coef. %/K	+0.043%/K
Pm.Temp.coef. %/K	-0.42%/K

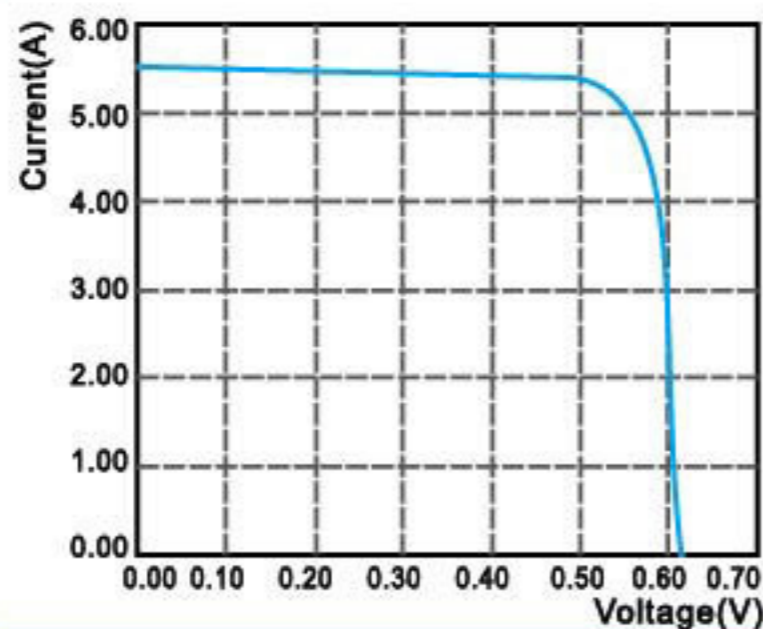
Intensity Dependence

Intensity(w/m ²)	Isc*(mA)	Voc*(mV)
1000	1.00	1.000
900	0.90	0.989
500	0.50	0.963
300	0.30	0.939
200	0.20	0.920

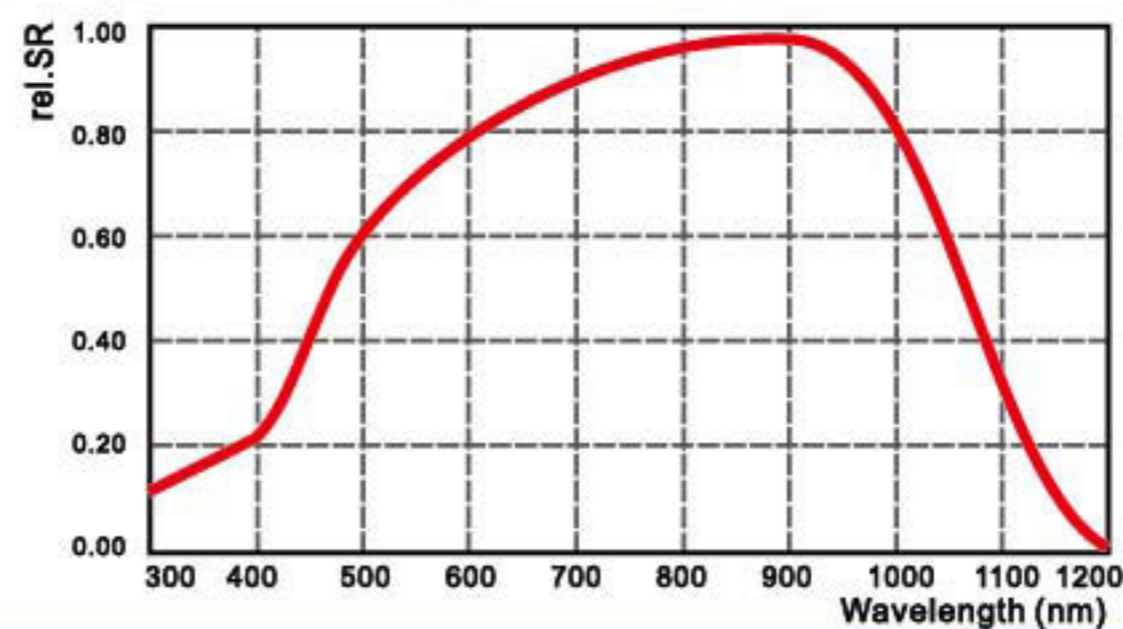
*Ratio of Voc(Isc)at reduced intensity to Voc(Isc)at 1000W/m²



IV Curve



Spectral Response



*Calibrated under AM1.5 global SRC in Fraunhofer ISE.

Electrical Characteristics

Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
19.20	2.97	0.537	5.531	0.637	5.888	79.19
19.00	2.94	0.535	5.495	0.637	5.876	78.55
18.80	2.91	0.533	5.460	0.636	5.862	78.05
18.60	2.88	0.531	5.424	0.635	5.848	77.56
18.40	2.85	0.527	5.408	0.633	5.839	77.11
18.20	2.82	0.524	5.382	0.630	5.826	76.83
18.00	2.79	0.521	5.355	0.629	5.809	76.36
17.80	2.76	0.518	5.328	0.628	5.791	75.89
17.60	2.73	0.516	5.291	0.626	5.779	75.46
17.40	2.70	0.515	5.243	0.625	5.756	75.05

*Data under standard testing conditions (STC): 1,000W /m² , AM1.5, 25°C, Pmax : Positive power tolerance.