



# 156mm Multicrystalline silicon solar cell (3BB)

## Mechanical Data And Design

Format	156mmx156mm 0.5mm
Thickness(Wafer)	200μm ±30μm
Front(-)	1.6mm bus bars(silver). Blue anti-reflection coating(silicon nitride)
Back(+)	2.0mm wide soldering pads(silver) back surface field(aluminium)

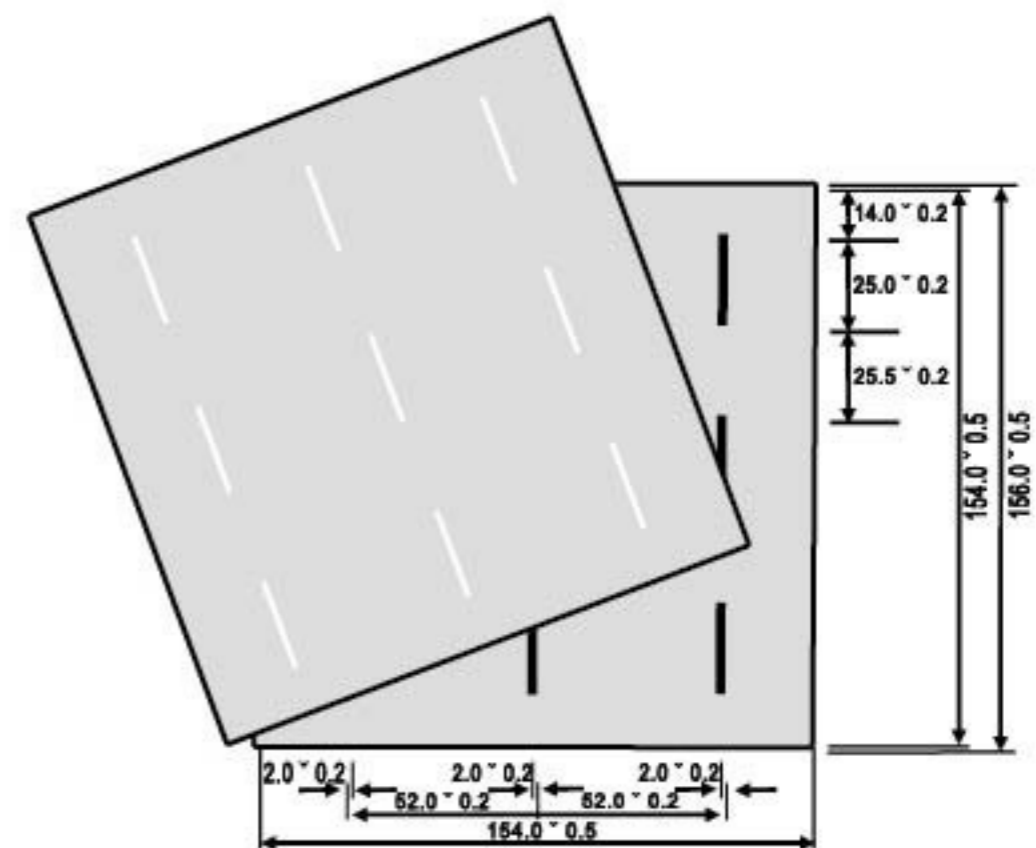
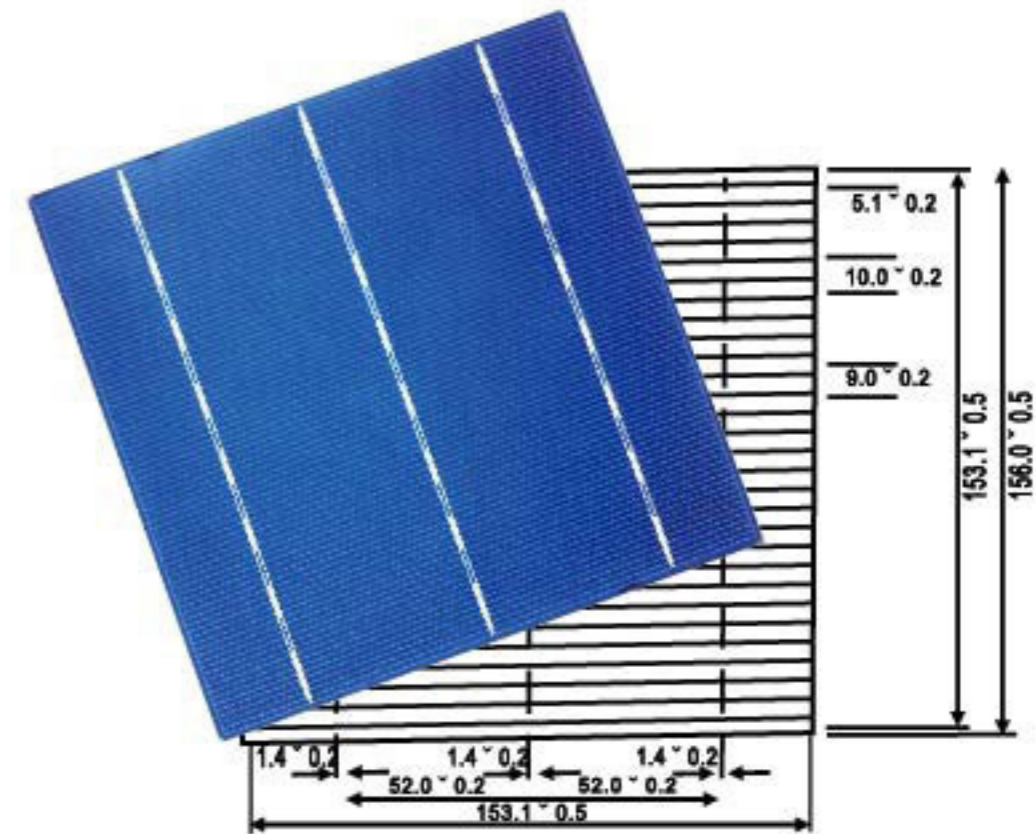
## Temperature Coefficients

Voltage	-0.368%/K
Current	+0.077%/K
Power	-0.364%/K

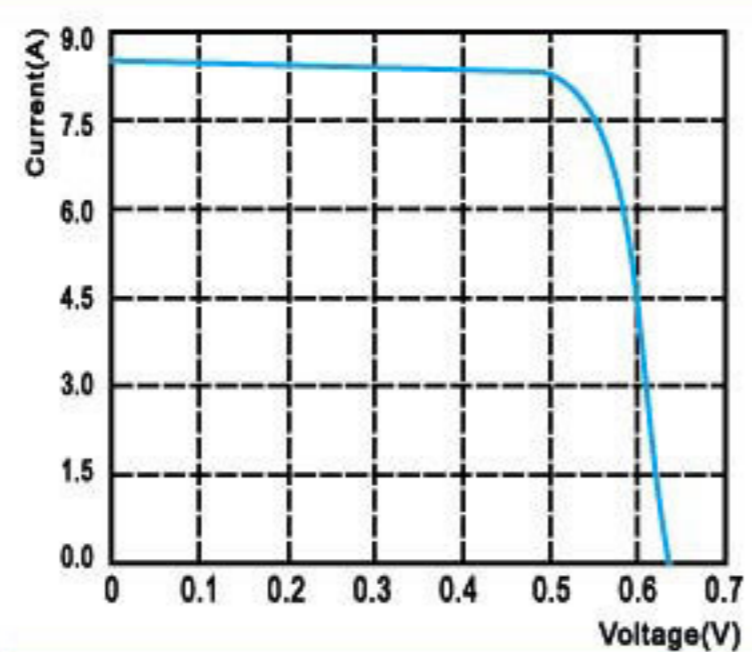
## Intensity Dependence

Intensity(W/m <sup>2</sup> )	Isc*(mA)	Voc*(mV)
1000	1.00	1.00
900	0.90	1.00
500	0.50	0.960
300	0.30	0.930
200	0.20	0.920

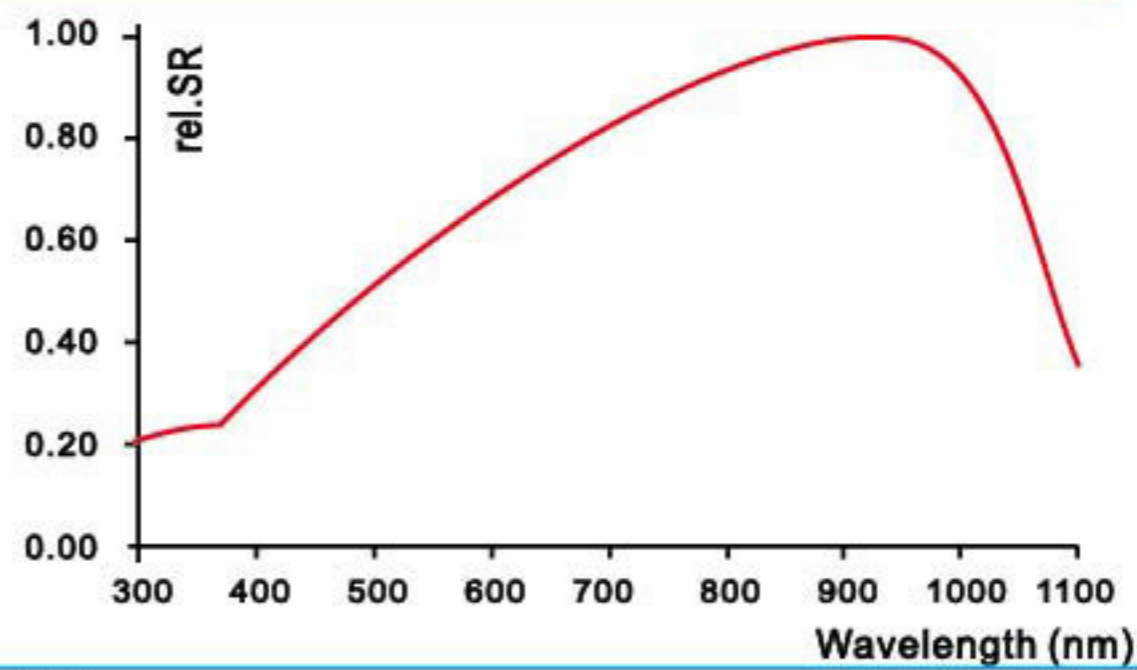
\*Ratio of Voc(Isc)at reduced intensity to Voc(Isc)at 1000W/m<sup>2</sup>



## IV Curve



## Spectral Response



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

## Electrical Characteristics

Efficiency(%)	Pmpp(W)	Umpp(V)	Ipp(A)	Uoc(V)	Isc(A)	FF(%)
1700	4.137	0.523	7.910	0.625	8.398	17.00
1720	4.186	0.525	7.793	0.627	8.454	17.02
1740	4.234	0.527	8.035	0.632	8.485	17.40
1760	4.283	0.529	8.097	0.633	8.523	17.60
1780	4.332	0.530	8.160	0.634	8.573	17.80
1800	4.380	0.531	8.274	0.635	8.822	18.00
1820	4.429	0.533	8.319	0.637	8.865	18.20
1840	4.478	0.536	8.364	0.640	8.884	18.40
1860	4.526	0.539	8.407	0.643	8.945	18.60

\*Data under standard testing conditions (STC): 1,000W /m<sup>2</sup> , AM1.5, 25°C, Pmax : Positive power tolerance.