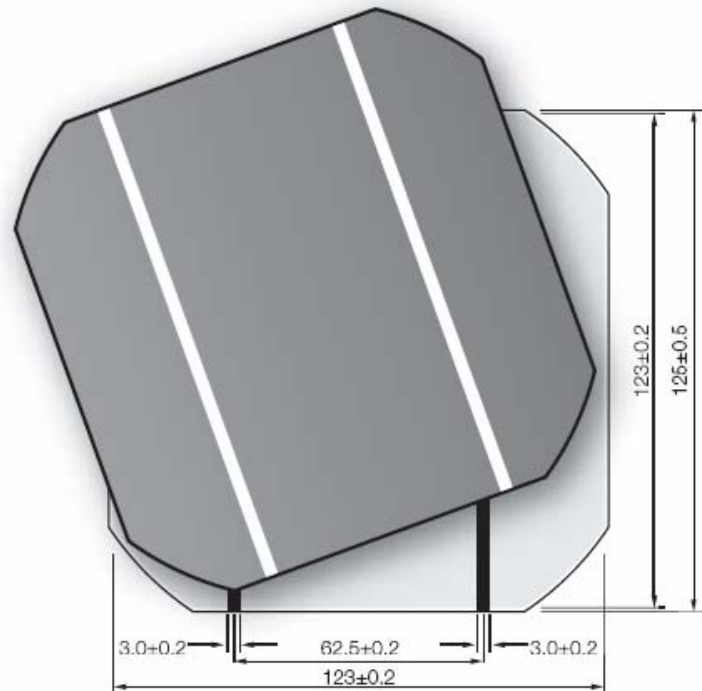
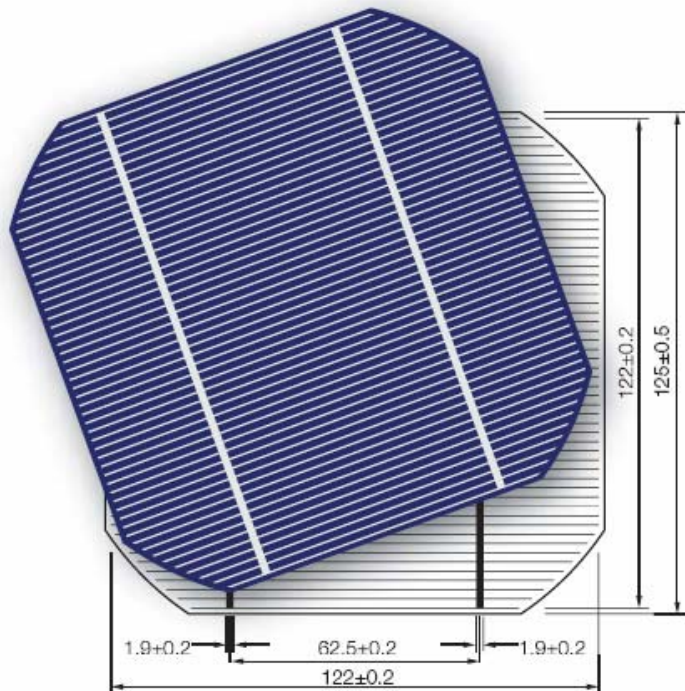
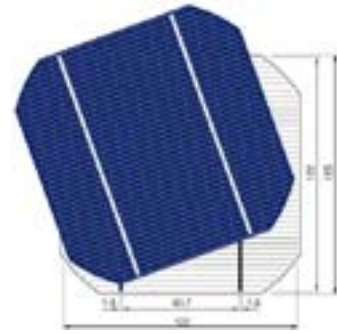
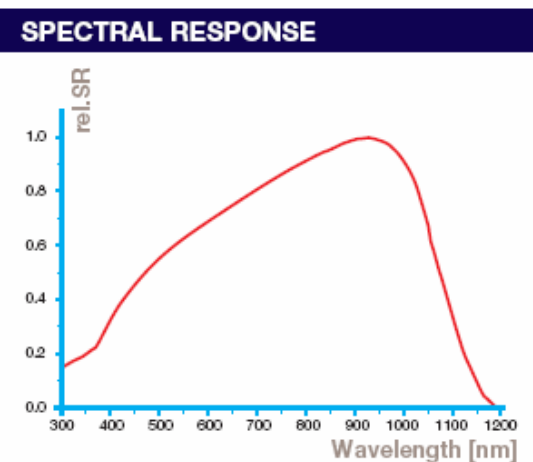
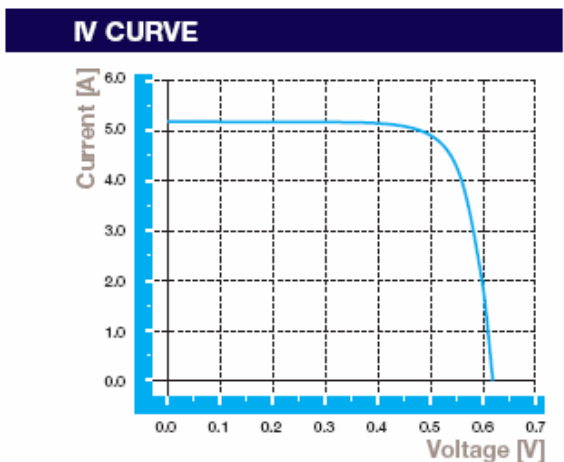

**Monocrystalline Silicon
Photovoltaic Solar Cell
125 x 125mm (5")**



Crystalline Silicon Solar Cells

- High efficiency and stable performance in photovoltaic conversion.
- Advanced diffusion technique ensuring the homogeneity of energy conversion efficiency of the cell.
- Advanced PECVD film forming, providing a dark blue silicon nitride anti-reflection film of homogenous color and attractive appearance.
- High quality metal paste for back surface and electrode, ensuring good conductivity, high pulling strength and ease of soldering.
- High precision patterning using screen printing, ensuring accurate busbar location for ease with automatic soldering a laser cutting.

MECHANICAL DATA AND DESIGN		Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
Format	125mm×125mm±0.5mm	17.75-18.00	2.66	0.533	4.986	0.630	5.327	79.24
Thickness	190μm±20μm	17.50-17.75	2.62	0.528	4.959	0.629	5.297	78.60
Front(-)	1.9mm bus bars(silver), blue anti-reflecting coating(silicon nitride)	17.25-17.50	2.58	0.523	4.934	0.629	5.285	77.59
		17.00-17.25	2.54	0.519	4.906	0.628	5.270	76.74
Back(+)	3mm wide soldering pads(silver) back surface field(aluminium)	16.75-17.00	2.50	0.512	4.884	0.628	5.262	75.70
		16.50-16.75	2.47	0.509	4.861	0.627	5.254	75.00
TEMPERATURE COEFFICIENTS		16.25-16.50	2.43	0.507	4.798	0.626	5.245	74.07
TkVoltage	-0.348%/K	16.00-16.25	2.40	0.504	4.754	0.625	5.237	73.34
TkCurrent	+0.031%/K	15.75-16.00	2.36	0.502	4.696	0.624	5.228	72.34
TkPower	-0.46%/K	15.50-15.75	2.32	0.500	4.636	0.621	5.180	72.12



INTENSITY DEPENDENCE

Intensity [W/m ²]	Isc* [mA]	Voc* [mV]
1000	1.0	1.000
900	0.9	0.994
500	0.5	0.968
300	0.3	0.942
200	0.2	0.922

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

*calibrated against fraunhofer ISE freiburg

