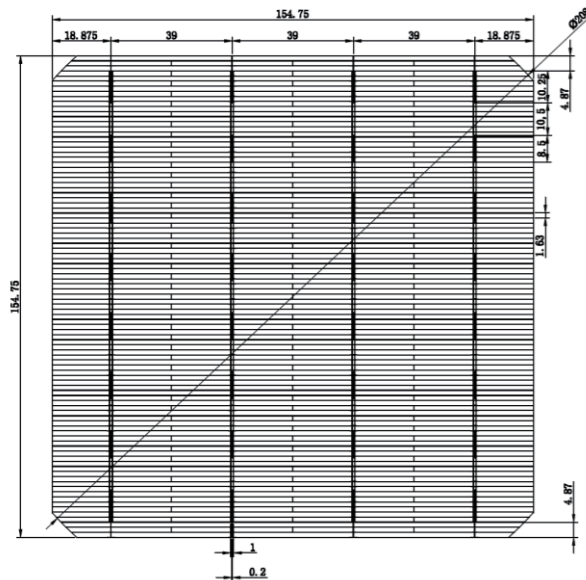
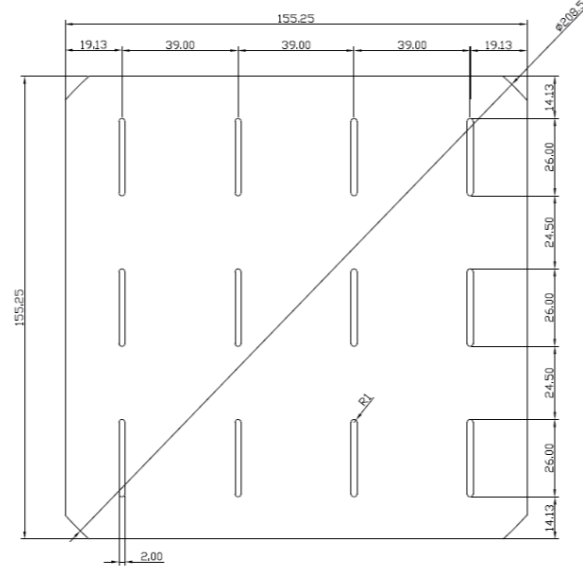


Front Pattern



Back Pattern



### Mechanical Characteristics

Product	Poly-crystalline Silicon Solar Cell
Dimension	156.75mm×156.75mm, Φ210mm, tolerance±0.5mm
Thickness	200µm/190µm, tolerance±20µm
Front (cathode)	Blue silicon nitride anti-reflection coating Four row 1mm wide discontinuous silver bus bars
Back (anode)	Aluminum back surface field 2.2mm wide discontinuous silver soldering pads

### Electrical Characteristics

Efficiency(%)	Pmpp (Wp)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
21.20%	5.18	0.568	9.119	0.664	9.607	81.2
21.10%	5.16	0.567	9.092	0.663	9.588	81.1

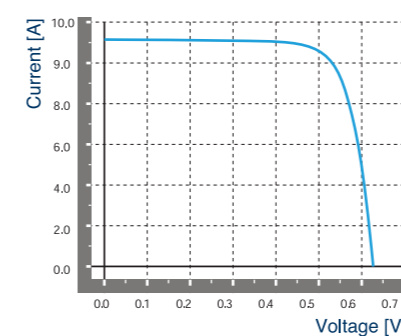
21.00%	5.13	0.566	9.065	0.662	9.568	81.0
20.90%	5.11	0.565	9.038	0.661	9.549	80.9
20.80%	5.08	0.564	9.010	0.660	9.529	80.8
20.70%	5.06	0.563	8.983	0.659	9.510	80.7
20.60%	5.03	0.562	8.956	0.658	9.490	80.6
20.50%	5.01	0.561	8.928	0.657	9.470	80.5
20.40%	4.98	0.560	8.900	0.656	9.450	80.4
20.30%	4.96	0.559	8.872	0.655	9.430	80.3

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25 °C, AM1.5G.Pmpp ±1.5%, Efficiency ±0.2% abs.

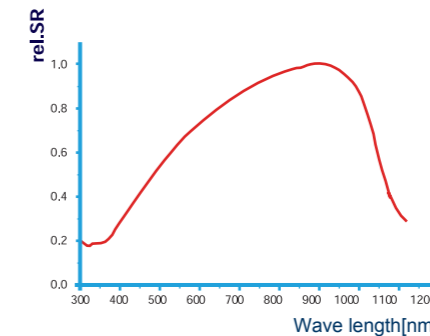
### Temperature Coefficients

TkCurrent	+0.07%/°C
TkVoltage	-0.36%/°C
TkPower	-0.38%/°C

#### IV CURVE



#### SPECTRAL RESPONSE



#### INTENSITY DEPENDENCE

Intensity [W/m <sup>2</sup> ]	Isc	Voc*	Pmpp
1000	1.0	1.000	1.000
800	0.80	0.990	0.790
500	0.50	0.970	0.490
300	0.30	0.950	0.290
200	0.20	0.930	0.190

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

\*calibrated against fraunhofer ISE freiburg