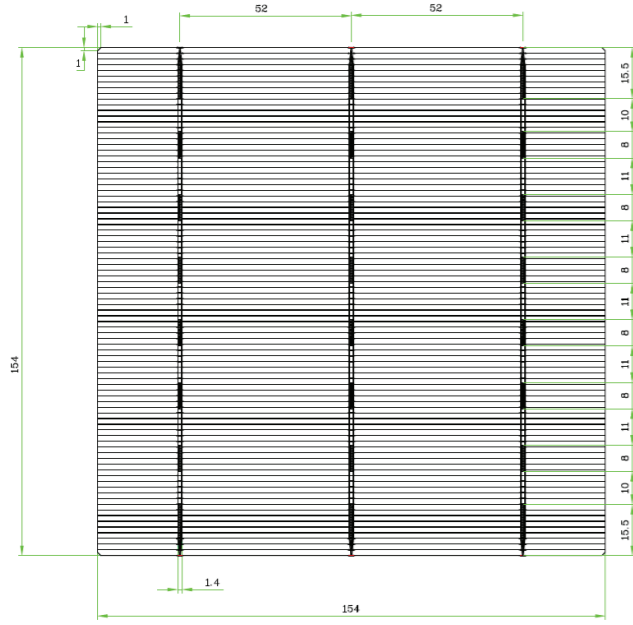
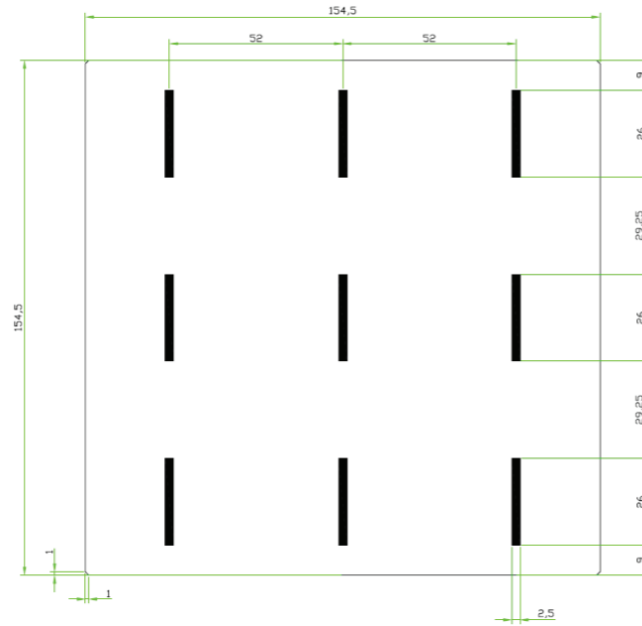


Front Pattern



Back Pattern



### Mechanical Characteristics

Product	Poly-crystalline Silicon Solar Cell
Dimension	156mm×156mm, tolerance±0.5mm
Thickness	200µm, tolerance±20µm
Front (cathode)	Blue silicon nitride anti-reflection coating Three row 1.4mm wide discontinuous silver bus bars
Back (anode)	Aluminum back surface field Three row 2.5mm wide discontinuous silver soldering pads

### Electrical Characteristics

Efficiency(%)	Pmpp (Wp)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
18.2%+	4.43	0.537	8.25	0.635	8.74	79.8
18.0%+	4.38	0.534	8.23	0.634	8.73	79.4

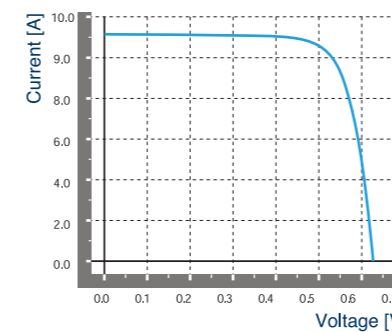
17.8%+	4.33	0.532	8.22	0.632	8.72	79.4
17.6%+	4.28	0.527	8.15	0.628	8.66	79.0
17.4%+	4.23	0.524	8.10	0.626	8.62	78.7
17.3%+	4.21	0.523	8.08	0.625	8.60	78.5
17.2%+	4.19	0.521	8.05	0.624	8.58	78.4
17.0%+	4.14	0.519	7.99	0.622	8.53	78.0
16.8%+	4.09	0.518	7.95	0.620	8.51	78.0
16.6%+	4.04	0.516	7.84	0.619	8.49	77.1
16.0%+	3.89	0.511	7.65	0.614	8.25	77.1

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

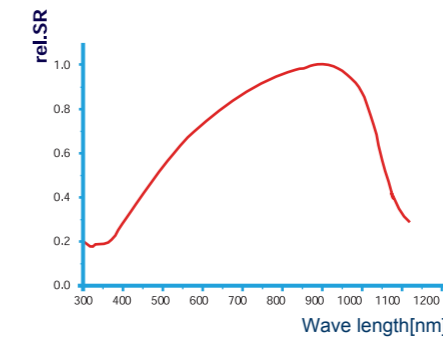
### Temperature Coefficients

TkCurrent	+0.06%/°C
TkVoltage	-0.32%/°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