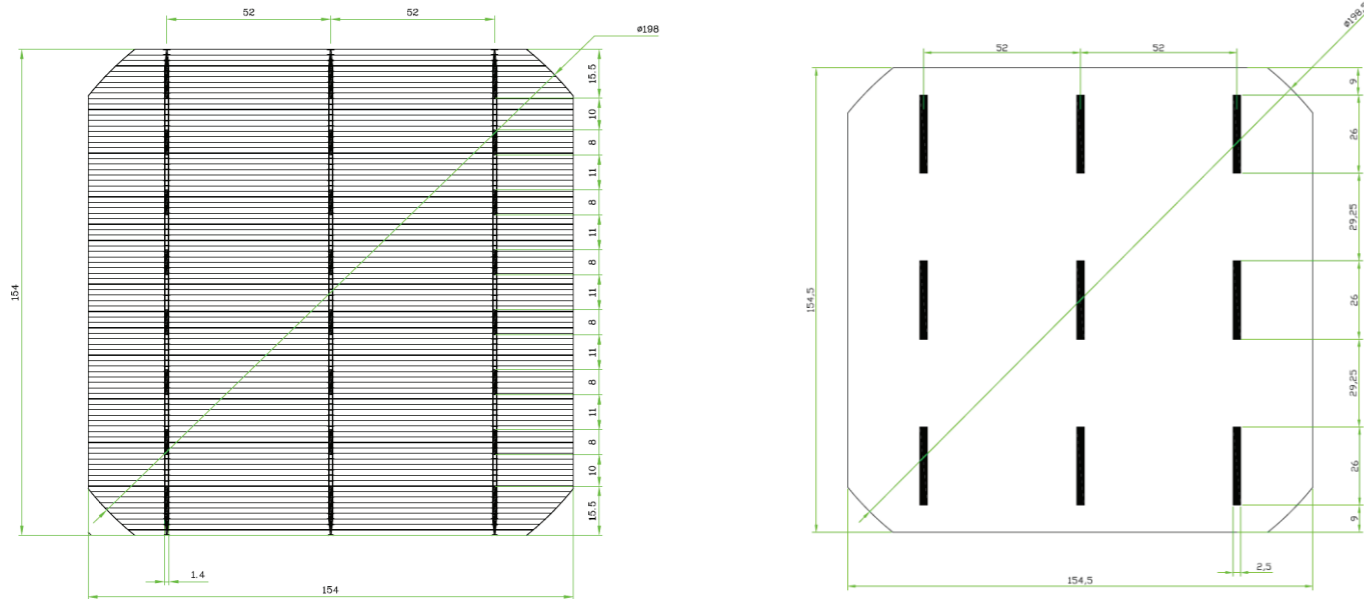


Front Pattern

Back Pattern



Mechanical Characteristics

Product	Mono-crystalline Silicon Solar Cell
Dimension	156mm×156mm,Φ200mm, 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

Efficiency (%)	Pmpp (Wp)	Vmpp (V)	Imp (A)	Voc (V)	Isc (A)	FF (%)
19.6%+	4.68	0.544	8.62	0.641	9.11	80.3
19.4%+	4.64	0.541	8.58	0.639	9.07	80.0

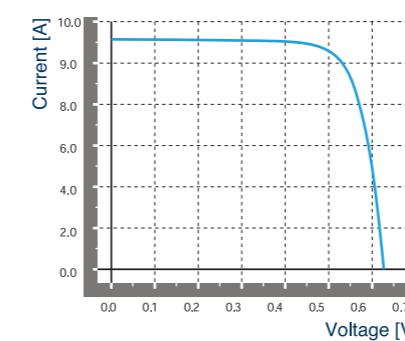
19.2%+	4.59	0.540	8.50	0.637	9.02	79.9
19.0%+	4.54	0.536	8.47	0.635	8.98	79.6
18.8%+	4.49	0.535	8.39	0.634	8.88	79.7
18.6%+	4.44	0.534	8.32	0.633	8.84	79.5
18.4%+	4.40	0.533	8.25	0.631	8.82	79.1

STC: Irradiance 1000W/m², Cell temperature 25 °C, AM1.5G. Pmpp ±1.5%, Efficiency ±0.2% abs.

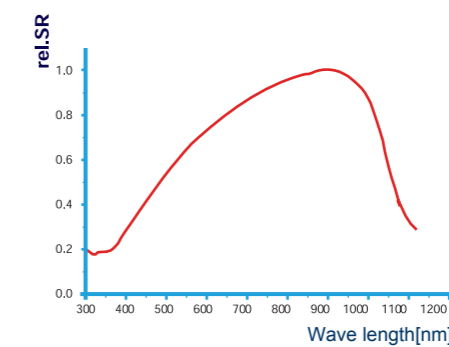
Temperature Coefficients

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

IV CURVE



SPECTRAL RESPONSE



INTENSITY DEPENDENCE

Intensity [W/m ²]	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/m²

*calibrated against fraunhofer ISE freiburg