

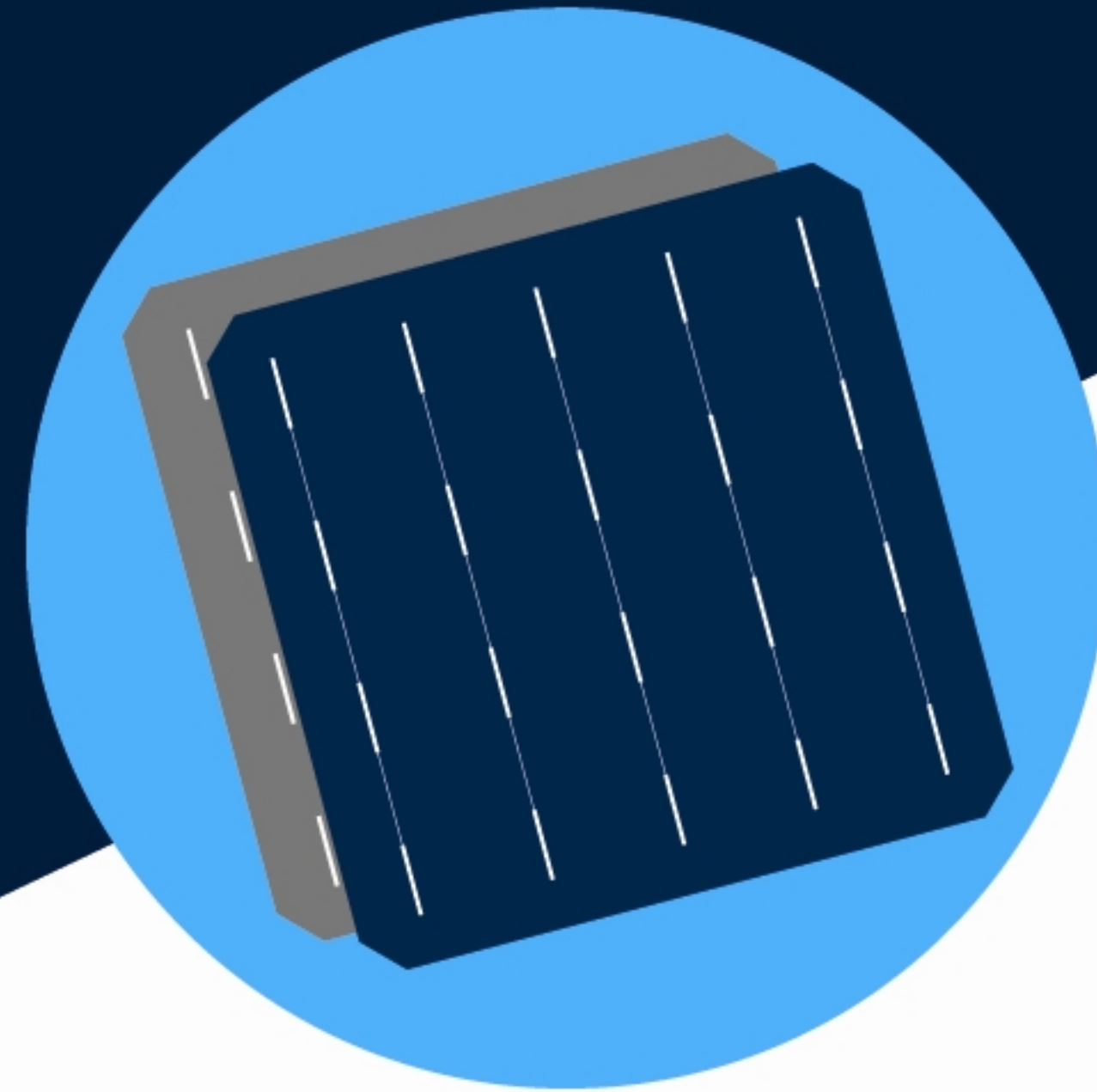


# XM M2 5BB

## 156.75 × 156.75-PERC

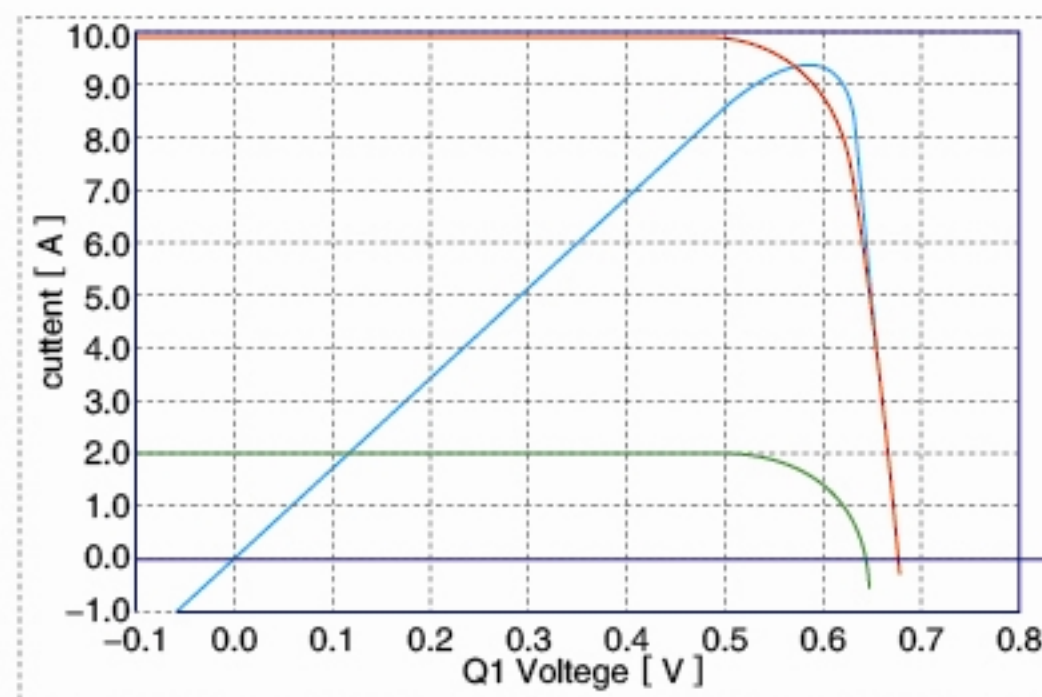
MONOCRYSTALLINE SILICON SOLAR CELLS  
MECHANICAL DATA & DESIGN

Dimension: 156.75mm\*156.75mm ± 0.25mm

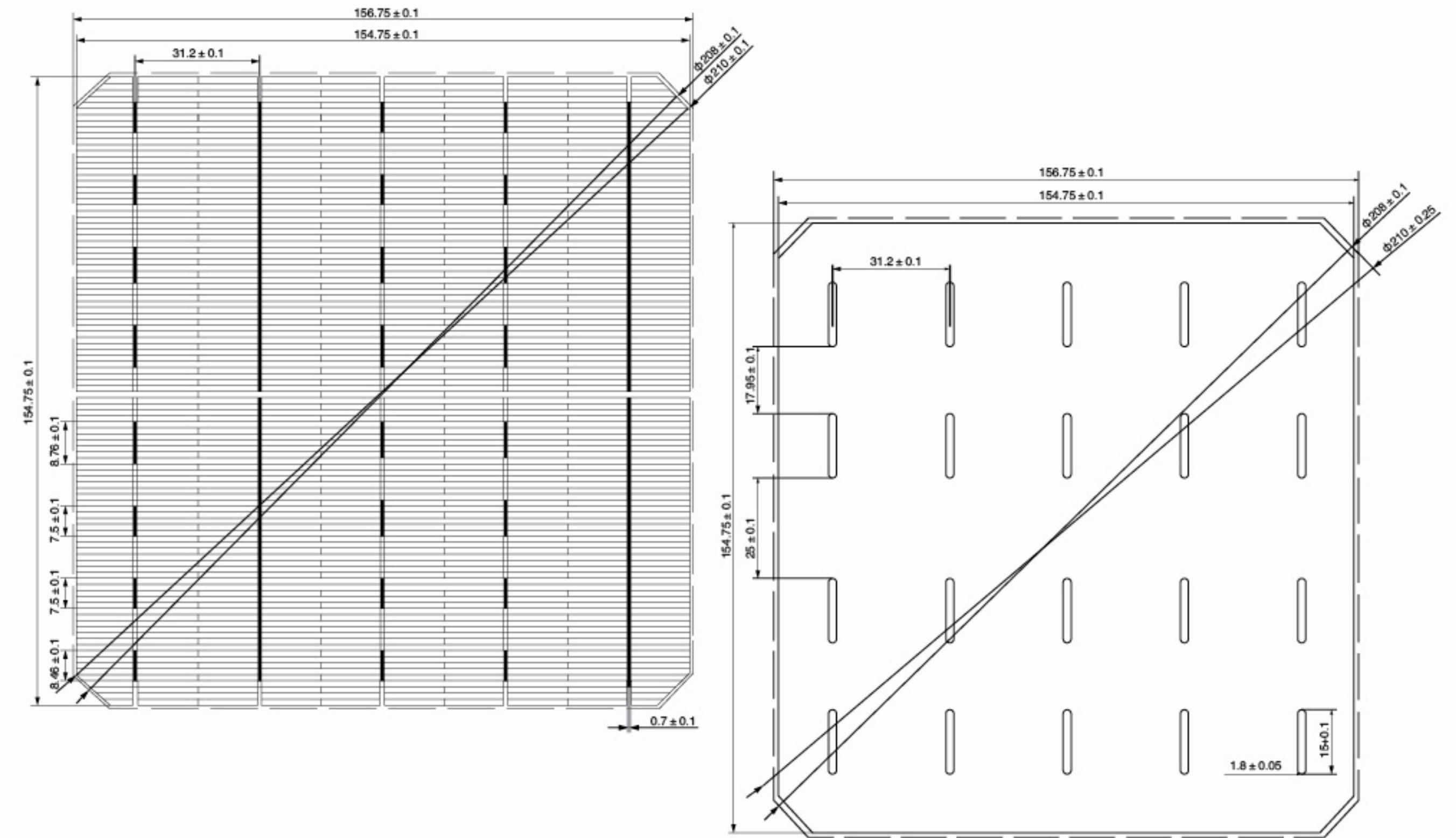
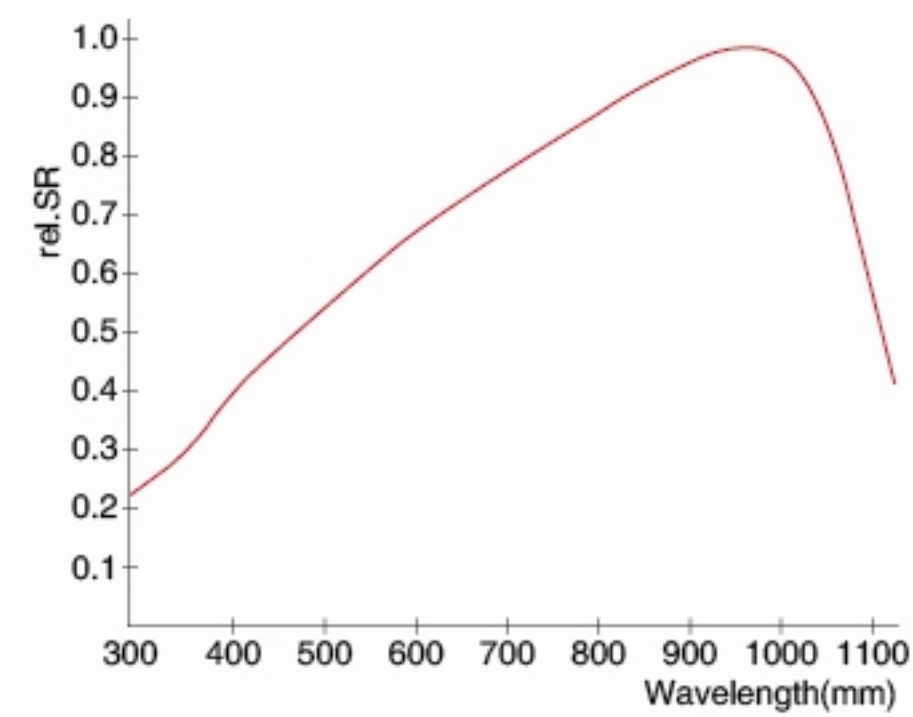


Thickness: 180 μm ± 20 μm  
Front(-) :0.7 silver bus bars,blue silicon nitride anti-reflecting coating  
Back(+):1.8mm wide soldering pads(silver) back surface(passivation emitter and aluminium)

I-V CURVE



SPECTRAL RESPONSE



XM M2 156.75 × 156.75	Efficiency(%)	Pmpp(W)	Ump(V)	I <sub>mp</sub> (A)	U <sub>oc</sub> (V)	I <sub>sc</sub> (A)	FF(%)
A2200	22.26-22.50	5.38	0.5837	9.3340	0.6851	9.8657	80.61
A2190	22.15-22.26	5.35	0.5819	9.3184	0.6842	9.8595	80.38
A2180	22.04-22.15	5.33	0.5802	9.3034	0.6833	9.8536	80.17
A2170	21.93-22.04	5.30	0.5783	9.2896	0.6821	9.8462	79.99
A2160	21.82-21.93	5.28	0.5762	9.2787	0.6807	9.8396	79.81
A2150	21.71-21.82	5.25	0.5737	9.2729	0.6788	9.8326	79.71
A2140	21.60-21.71	5.23	0.5712	9.2665	0.6769	9.8251	79.59
A2130	21.49-21.60	5.20	0.5687	9.2569	0.6754	9.8209	79.37
A2120	21.38-21.49	5.18	0.5669	9.2353	0.6761	9.8293	78.79
A2110	21.27-21.38	5.16	0.5652	9.2252	0.6743	9.8149	78.79
A2100	21.16-21.27	5.13	0.5660	9.1607	0.6714	9.7244	79.41
A2080	20.90-21.16	5.08	0.5686	9.0531	0.6733	9.6420	79.30
A2060	20.70-20.90	5.03	0.5632	9.0470	0.6680	9.6318	79.19

### Temperature Coefficients

Current temperature coefficient +0.0002%/°C

Voltage temperature coefficient - 0.0032%/°C

Power temperature coefficient -0.41%/°C

### INTENSITY DEPENDENCE

Intensity [ W/m <sup>2</sup> ]	I <sub>sc</sub> [ m/A ]	V <sub>oc</sub> [ mV ]
1000	1.00	1.000
900	0.90	0.989
500	0.50	0.963
300	0.30	0.939
200	0.20	0.920

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

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