



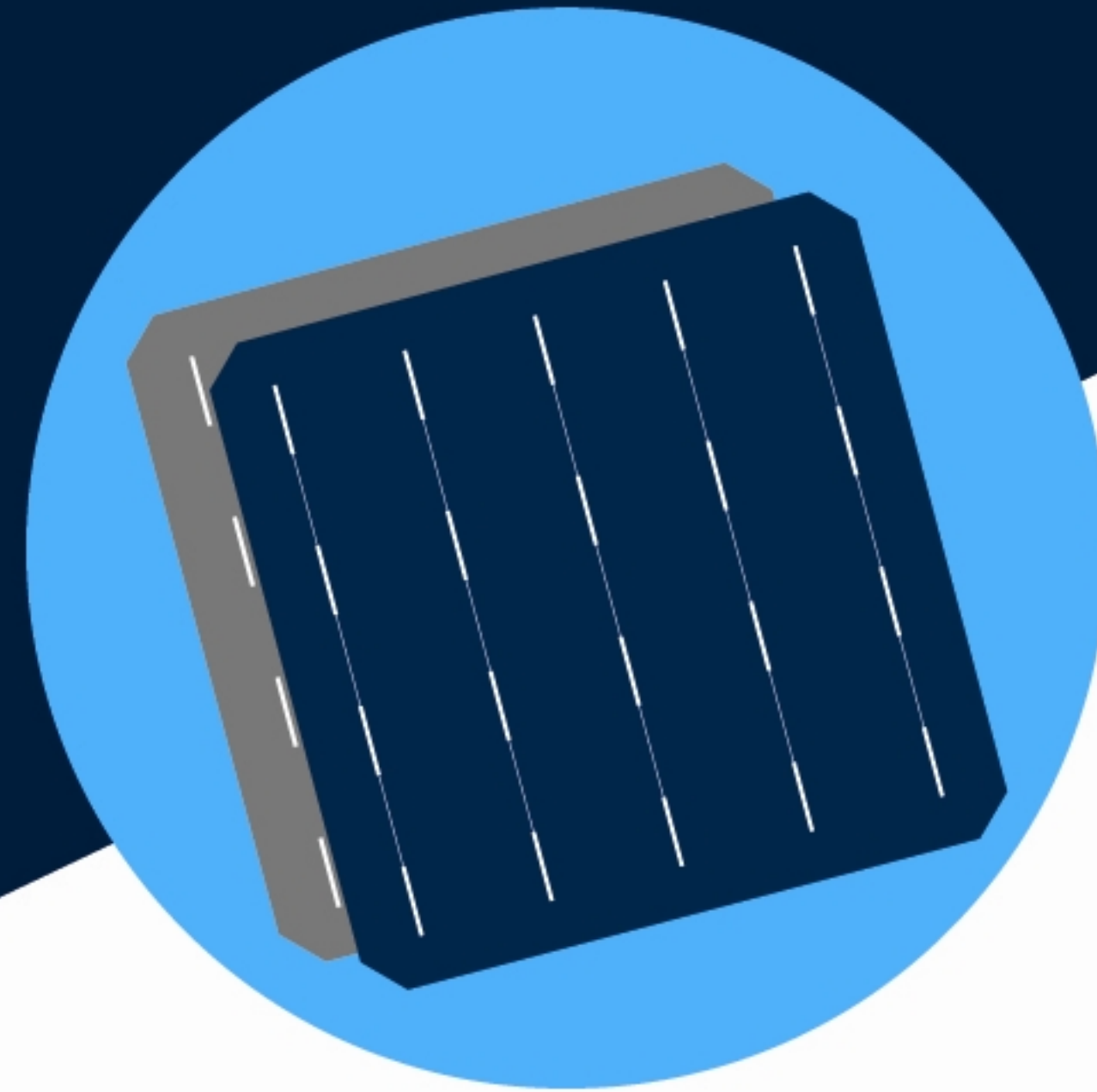
XM M2

156.75 × 156.75

MECHANICAL DATA & DESIGN

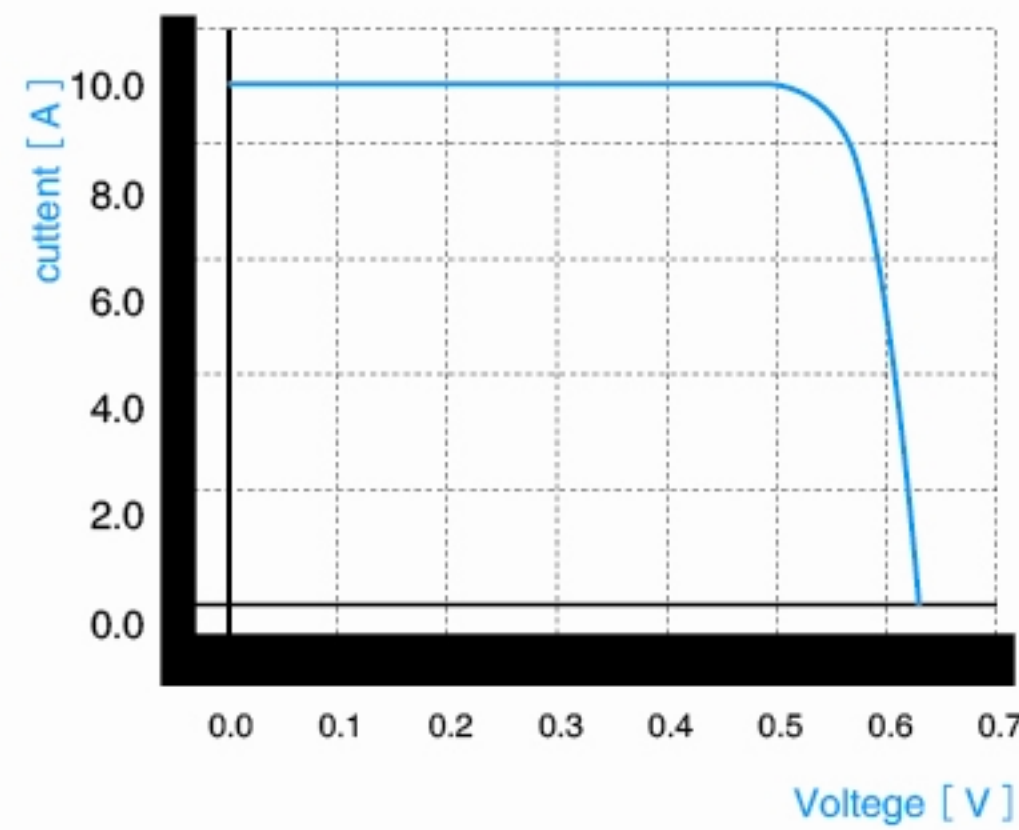
Monocrystalline Silicon Solar Cells

Dimension: 156.75mm*156.75mm ± 0.25mm

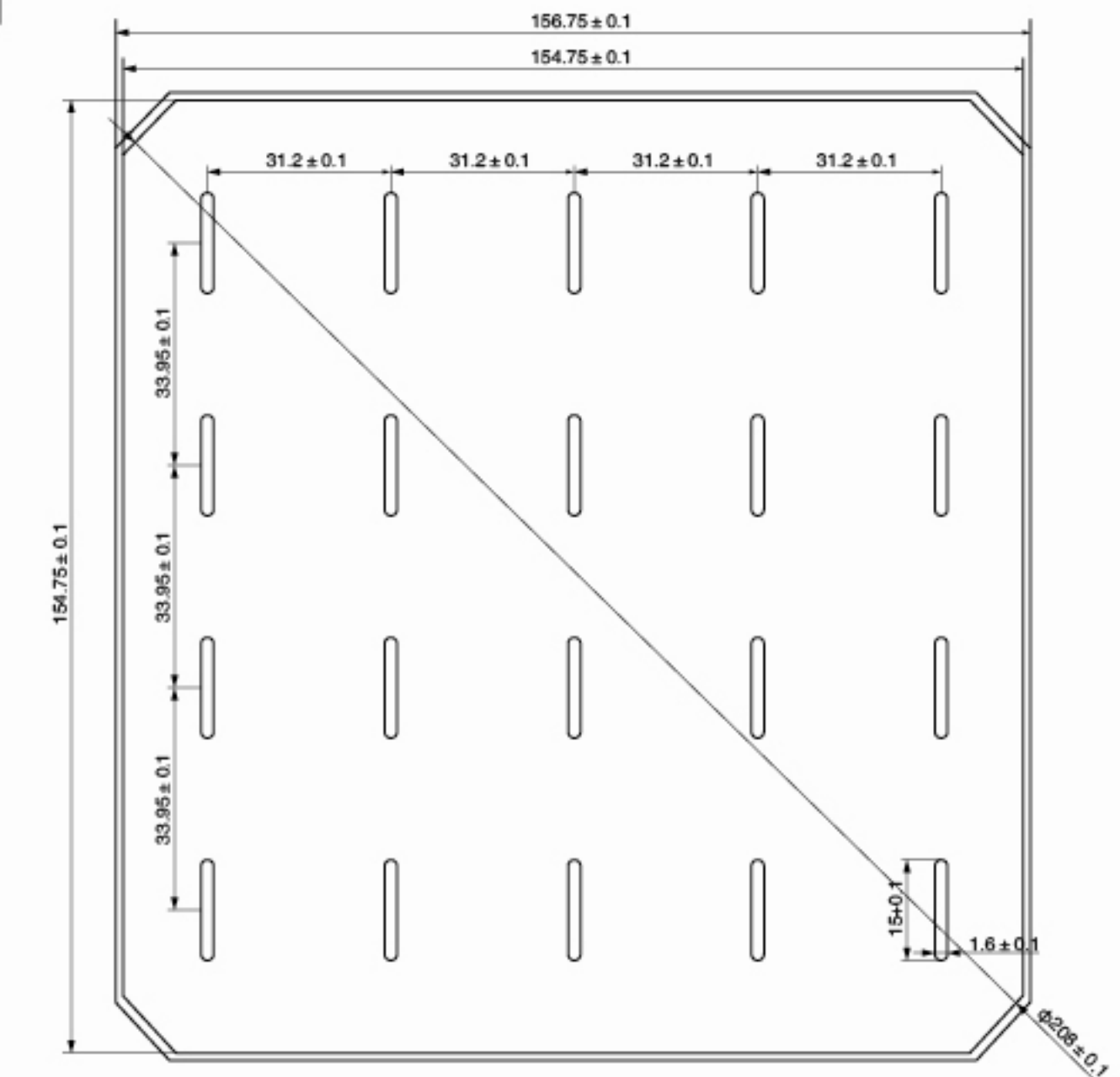
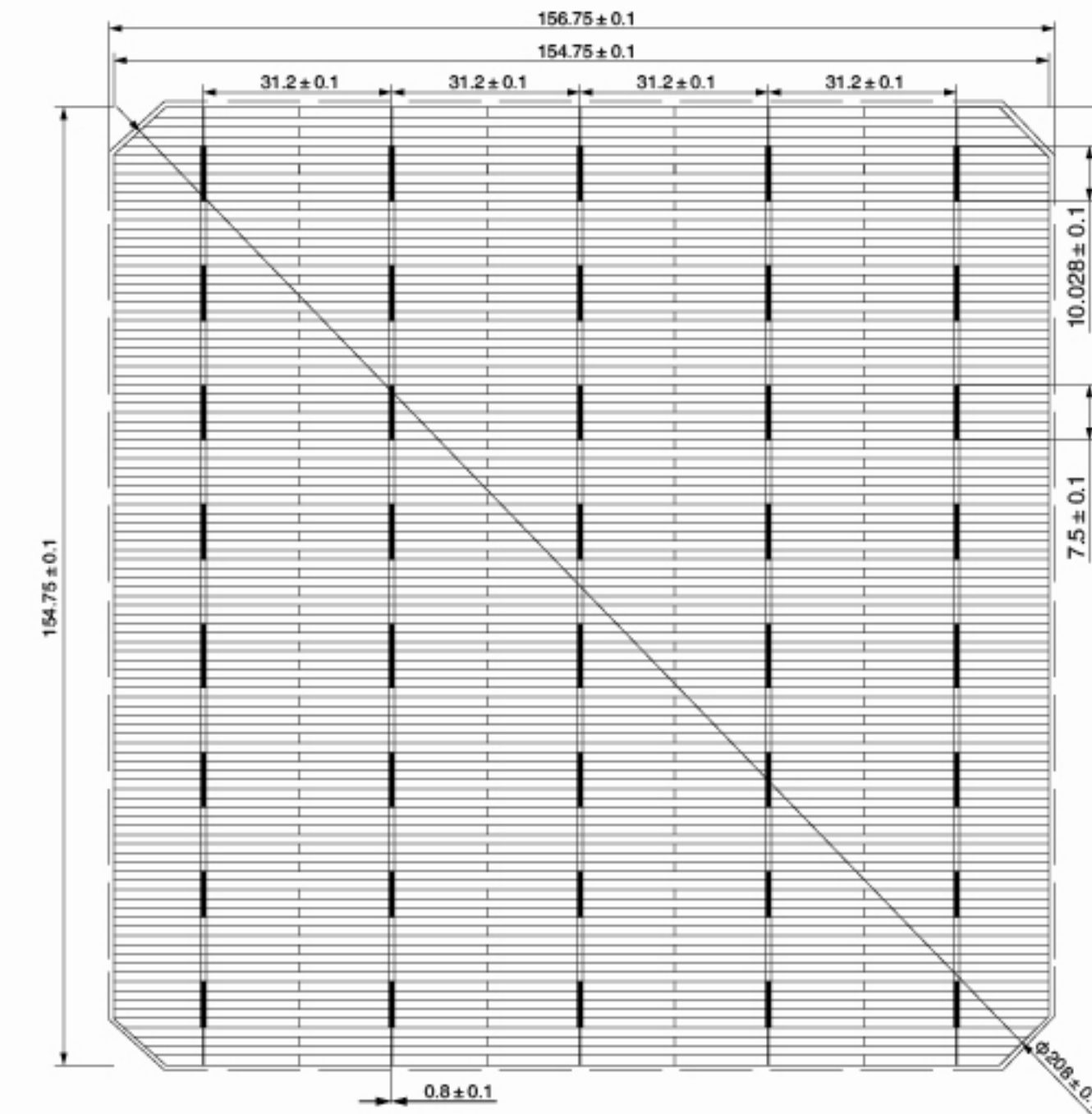
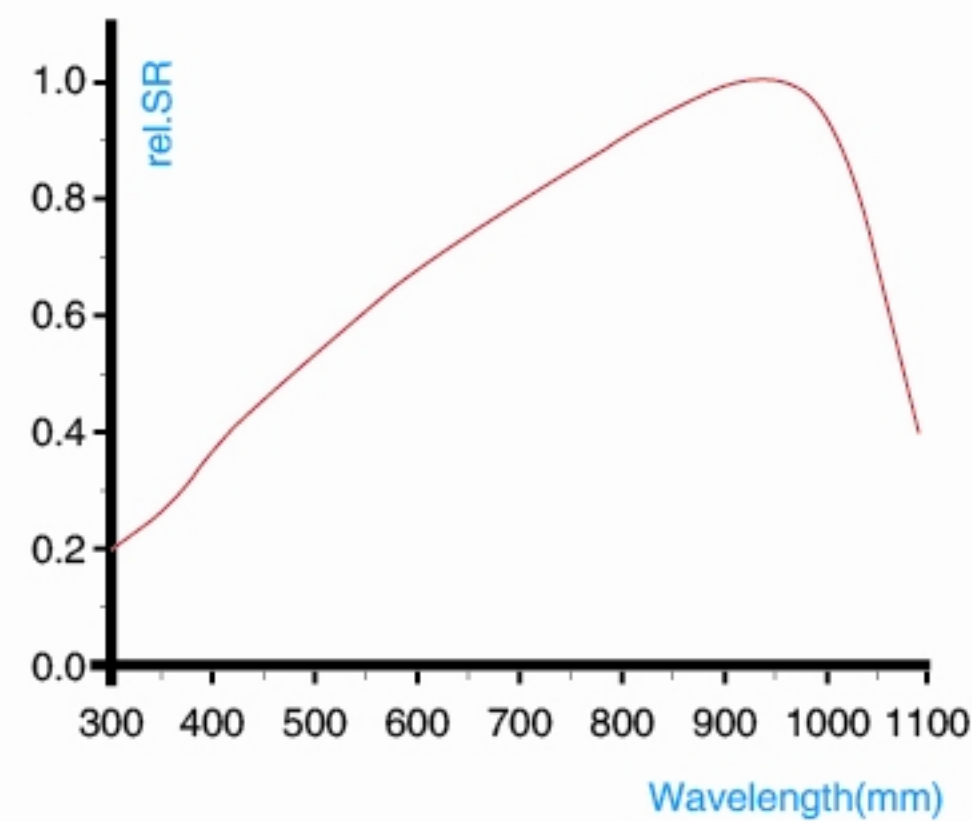


Thickness: 180 μm ± 20 μm
 Front(-): 0.8 silver bus bars, blue silicon nitride anti-reflecting coating

I-V CURVE



SPECTRAL RESPONSE



XM M2 156.75 × 156.75	Pmpp(W)	Ump(V)	I _{mp} (A)	U _{oc} (V)	I _{sc} (A)	FF(%)
A2030	4.96	0.5493	9.0388	0.643	9.5845	80.56%
A2020	4.94	0.5477	9.0287	0.6415	9.5701	80.55%
A2010	4.91	0.5466	8.9920	0.6406	9.5445	80.39%
A2000	4.89	0.5449	8.9833	0.6389	9.5356	80.35%
A1990	4.86	0.5443	8.9381	0.6385	9.495	80.25%
A1980	4.84	0.5427	8.9273	0.6381	9.473	80.15%
A1970	4.81	0.5414	8.8930	0.6376	8.434	80.05%
A1960	4.79	0.5402	8.8770	0.637	9.415	79.95%
A1950	4.76	0.5389	8.8424	0.6367	9.372	79.85%
A1940	4.74	0.5376	8.8263	0.6362	9.352	79.75%
A1920	4.69	0.5363	8.7541	0.6351	9.293	79.55%

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 ²]	I _{sc} [mA]	V _{oc} [mV]	P _{mp} [W]
1000	1.00	1.00	1.00
900	0.91	1.00	0.91
800	0.81	0.99	0.80
500	0.51	0.97	0.50
300	0.31	0.95	0.29
200	0.21	0.93	0.19

*Ratio of Voc(I_{sc}) at reduced intensity to Voc(I_{sc}) at 1000W/m²

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