

MS-M156

156×156mm Monocrystalline Solar Cells



Appearance

Size	156mm×156mm±0.5mm
Thickness	210μm±20μm
Front (-)	Silicon nitride anti-reflection film
	Width of electrode 1.6mm
Back (+)	Al-back surface field (Al-BSF)
	Width 2.3mm

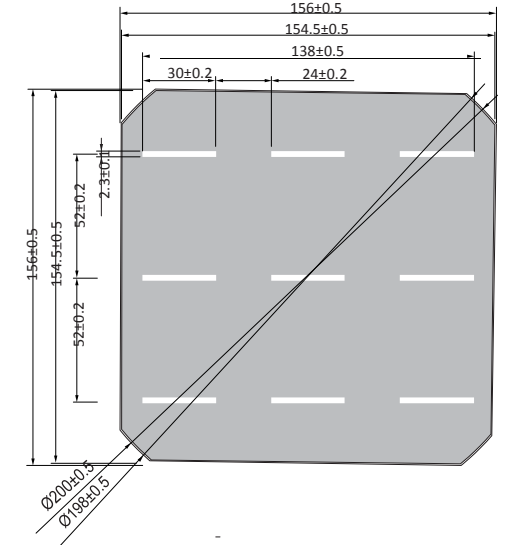
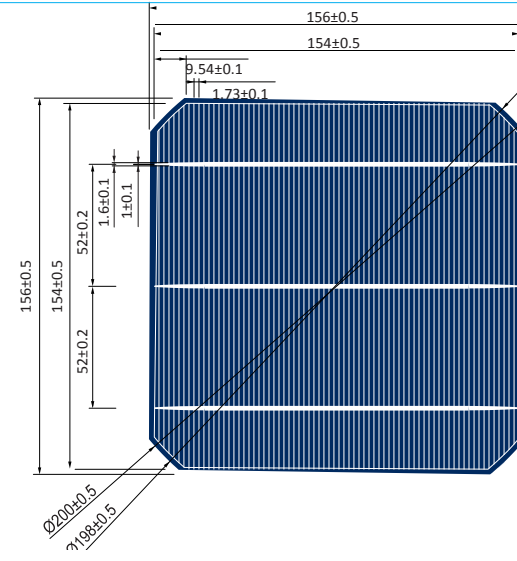
Temperature coefficients

Open-circuit voltage temperature coefficient	-0.36%/K
Short-circuit current temperature coefficient	0.07%/K
Max. power temperature coefficient	-0.38%/K

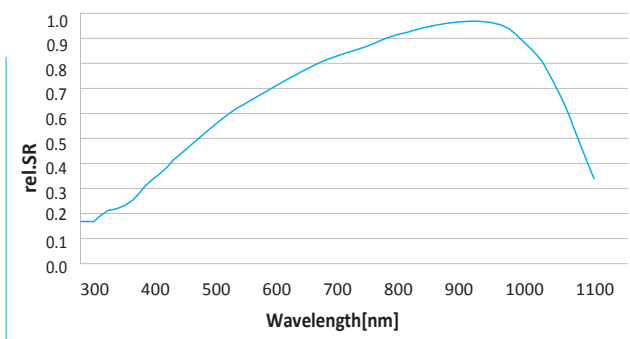
Electric performance parameters

EFF	RANGE	Pmpp(W)	Impp(A)	Umpp(V)	Isc(A)	Uoc(V)	FF(%)
19.50%	19.50%-19.70%	4.66	8.601	0.542	9.126	0.637	80.16
19.30%	19.30%-19.50%	4.61	8.527	0.541	9.055	0.636	80.05
19.10%	19.10%-19.30%	4.56	8.450	0.540	8.978	0.635	79.99
18.90%	18.90%-19.10%	4.52	8.391	0.539	8.920	0.634	79.93
18.70%	18.70%-18.90%	4.47	8.314	0.538	8.865	0.632	79.78
18.50%	18.50%-18.70%	4.42	8.236	0.537	8.825	0.631	79.37
18.30%	18.30%-18.50%	4.37	8.174	0.535	8.777	0.630	79.03
18.10%	18.10%-18.30%	4.32	8.126	0.532	8.727	0.629	78.70
17.90%	17.90%-18.10%	4.28	8.081	0.530	8.678	0.627	78.66
17.70%	17.70%-17.90%	4.23	8.028	0.527	8.625	0.626	78.34

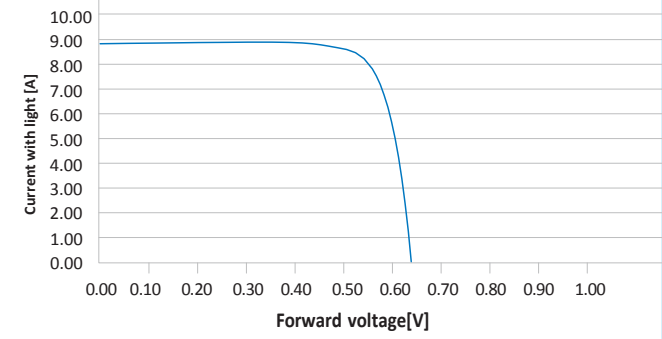
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Spectral response



I-V curve



Low light performance

Illumination intensity [W/m ²]	V _{pm}	I _{pm}
1000	1.000	1.000
800	0.990	0.800
600	0.990	0.600
200	0.930	0.180
100	0.920	0.100
60	0.910	0.060
30	0.880	0.030
15	0.860	0.010