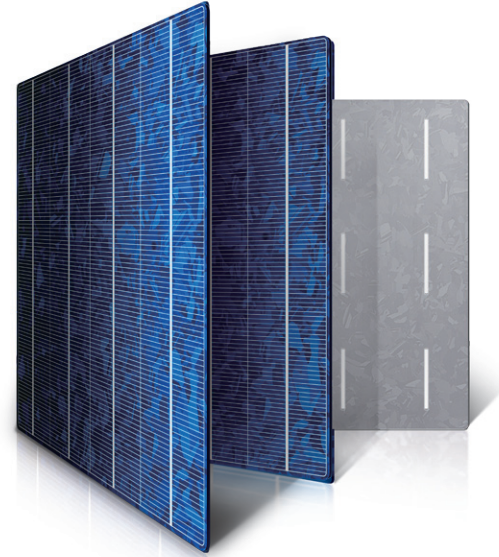


Multicrystalline Solar Cells



Appearance

Size	156mm×156mm±0.5mm
Thickness	210μm±20μm
Front (-)	Silicon nitride anti-reflection film
	Width of busbar 1.05mm
Back (+)	Al-back surface field (Al-BSF)
	Width 2 mm

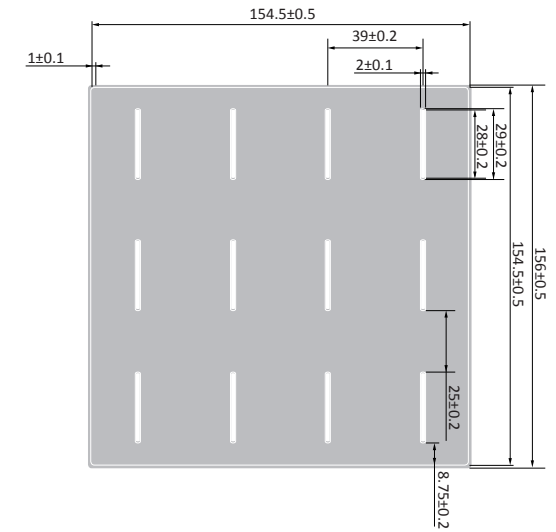
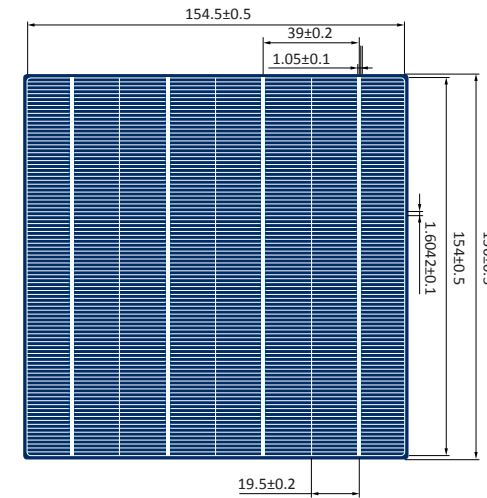
Temperature coefficients

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

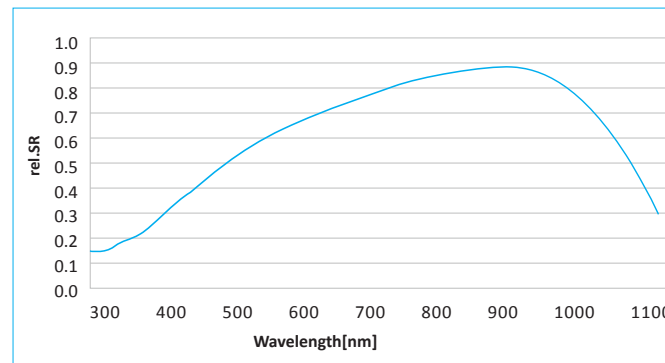
Electric performance parameters

EFF	RANGE	Pmpp(W)	Impp(A)	Umpp(V)	Isc(A)	Uoc(V)	FF(%)
18.60%	18.60%-18.80%	4.53	8.276	0.547	8.788	0.638	80.80
18.40%	18.40%-18.60%	4.48	8.214	0.545	8.729	0.638	80.44
18.20%	18.20%-18.40%	4.43	8.153	0.543	8.667	0.637	80.24
18.00%	18.00%-18.20%	4.38	8.091	0.541	8.606	0.637	79.90
17.80%	17.80%-18.00%	4.33	8.043	0.538	8.567	0.635	79.59
17.60%	17.60%-17.80%	4.28	7.995	0.535	8.536	0.633	79.21
17.40%	17.40%-17.60%	4.23	7.946	0.532	8.512	0.631	78.76
17.20%	17.20%-17.40%	4.19	7.916	0.529	8.473	0.628	78.74
17.00%	17.00%-17.20%	4.14	7.866	0.526	8.431	0.626	78.44

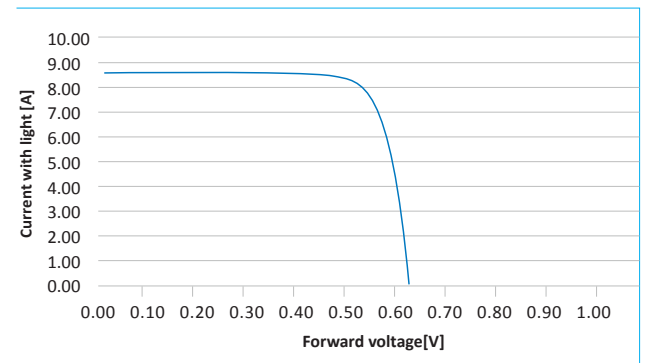
Multicrystalline Solar Cells



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	0.978	0.600
200	0.930	0.200
100	0.900	0.100
60	0.878	0.060
30	0.848	0.030
15	0.818	0.015