

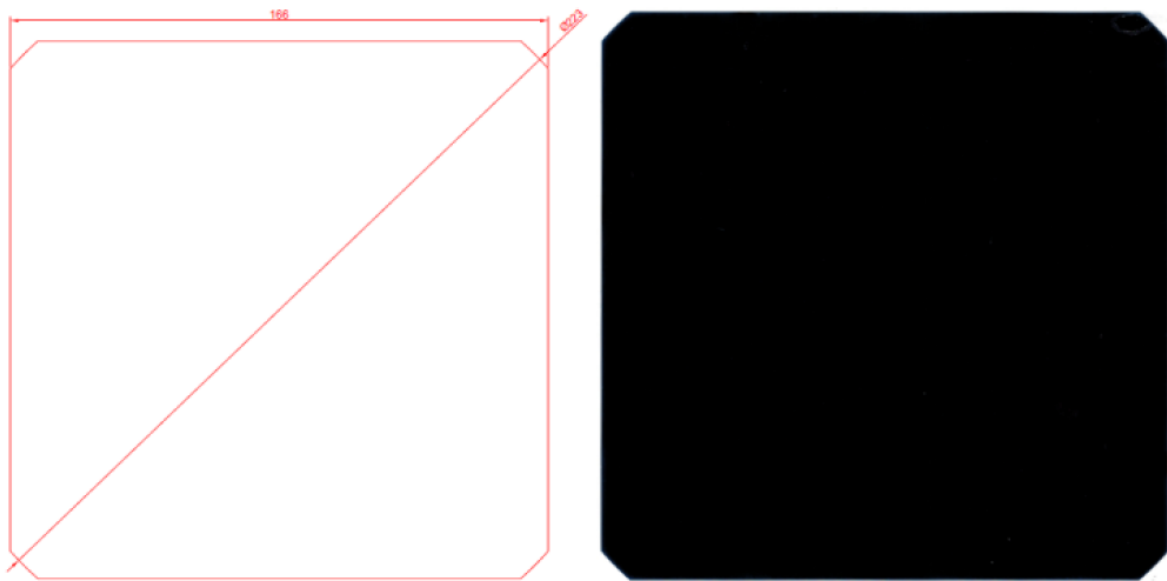
MONOCRISTALLINE TopCon SOLAR CELLS 166mm-bifacial IBC

166.00 mm M6 CIPS – CONFIDENTIAL

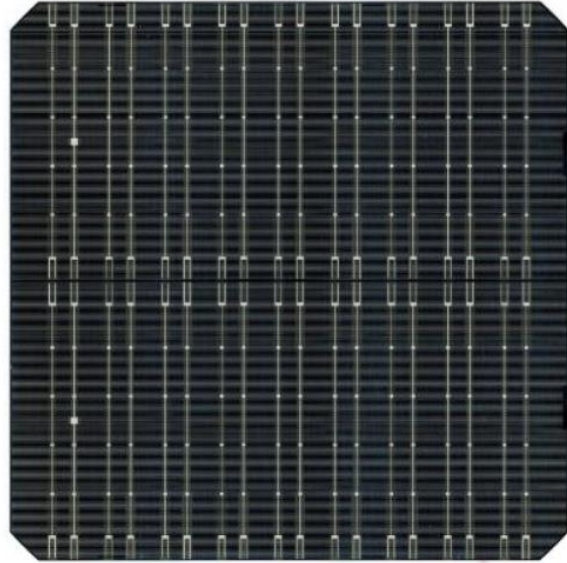
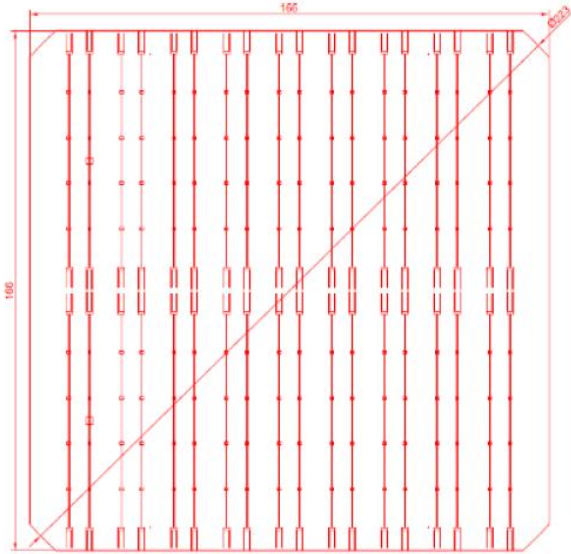
Mechanical Data and Design (Units:mm)

Solar cell structure

front side



back side



(166mm±0.25mm)×(166mm±0.25mm)
front without grid line,blue anti-reflection coating(silicon nitride)
0.2mm 9 bus bars(silver),blue anti-reflection coating(silicon nitride)

Electrical Characteristics

Efficiency(%)	Pmpp(Wp)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
24.90-25.00	6.83	0.606	11.274	0.709	11.773	81.85
24.80-24.90	6.80	0.604	11.261	0.707	11.770	81.74
24.70-24.80	6.78	0.603	11.243	0.706	11.757	81.68
24.60-24.70	6.75	0.602	11.207	0.704	11.746	81.59
24.50-24.60	6.72	0.601	11.190	0.703	11.737	81.50
24.40-24.50	6.69	0.599	11.186	0.701	11.731	81.43
24.30-24.40	6.67	0.598	11.145	0.699	11.729	81.32
24.20-24.30	6.64	0.597	11.118	0.697	11.725	81.21
24.10-24.20	6.61	0.595	11.098	0.695	11.712	81.17
24.00-24.10	6.59	0.594	11.094	0.694	11.696	81.12
23.90-24.00	6.56	0.592	11.075	0.694	11.681	80.95
23.80-23.90	6.54	0.591	11.065	0.693	11.676	80.80
23.70-23.80	6.50	0.589	11.008	0.692	11.662	80.55
23.60-23.70	6.48	0.588	10.992	0.691	11.663	80.43
23.50-23.60	6.46	0.587	10.981	0.690	11.664	80.17
23.40-23.50	6.43	0.586	10.942	0.690	11.651	79.99
23.30-23.40	6.39	0.584	10.910	0.689	11.635	79.73
23.20-23.30	6.38	0.583	10.915	0.689	11.652	79.48

Voc.Temp.Coeff	-0.268%/K
Isc.Temp.Coeff.	+0.042%/K
Pm.Temp.Coeff.	-0.3%/K

Intensity [W/m ²]	Isc	Voc
1000	1	1
900	0.9	0.994
500	0.5	0.974
300	0.3	0.951
200	0.2	0.927

Voc(Isc) 1000W/m² Voc (Isc)

Ratio of Voc (Isc) at reduced intensity to Voc (Isc) at 1000

