



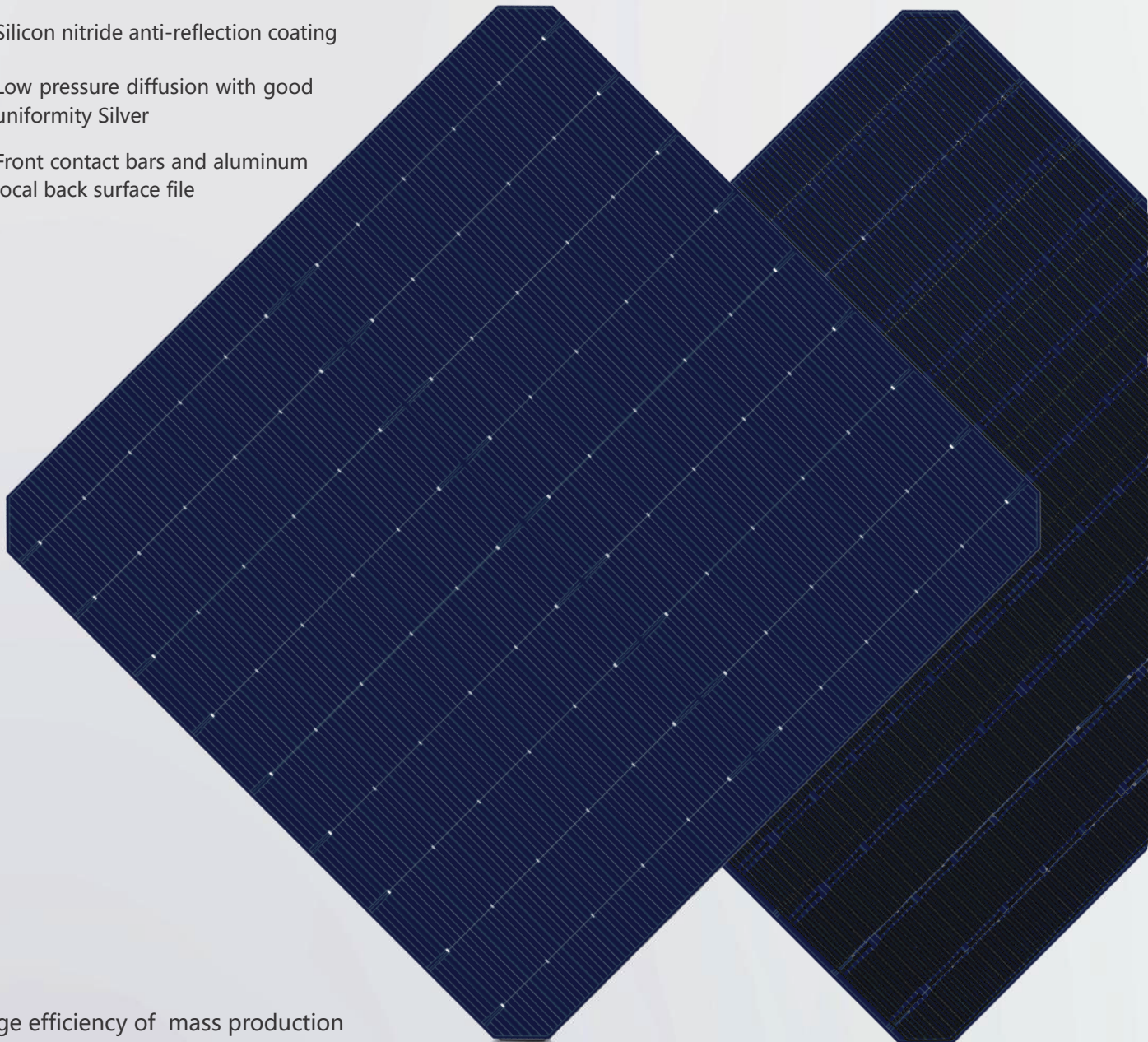




Y166M

166 Monocrystalline Bifacial Solar Cell

-  Ultra-Efficient solar cells with an anisotropically etched surface
-  Silicon nitride anti-reflection coating
-  Low pressure diffusion with good uniformity Silver
-  Front contact bars and aluminum local back surface file



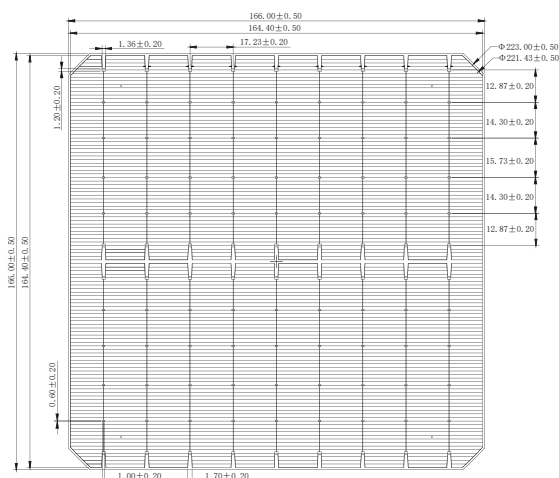
Average efficiency of mass production

Electrical Performance

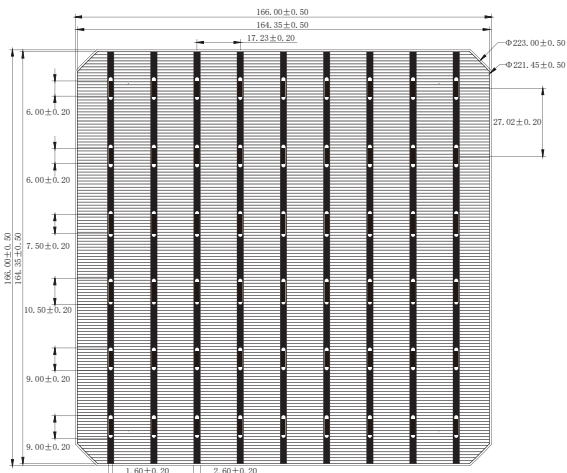
No.	Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
10	22.90	6.28	0.594	10.57	0.690	11.13	81.76
09	22.80	6.25	0.593	10.54	0.689	11.12	81.58
08	22.70	6.22	0.592	10.51	0.688	11.11	81.40
07	22.60	6.20	0.591	10.49	0.687	11.10	81.30
06	22.50	6.17	0.590	10.46	0.686	11.09	81.12
05	22.40	6.14	0.589	10.42	0.685	11.08	80.86
04	22.30	6.11	0.588	10.39	0.684	11.07	80.68
03	22.20	6.09	0.587	10.37	0.683	11.06	80.58
02	22.10	6.06	0.586	10.34	0.682	11.05	80.40
01	22.00	6.03	0.585	10.31	0.681	11.04	80.22

Product Appearance

Front



Back



Temperature Coefficient

TkPower -0.42%/K

TkVoltage -(0.33±0.03) %/k

TkCurrent +0.06%/K

Physical Characteristics

Substrate material Mono-crystalline silicon wafer

Cell thickness 190μm±30μm

Dimension 156.75mm×156.75mm±0.5mm

Front(-) 0.7mm bus bars(silver),
blue anti-reflecting coating(silicon nitride)

Back(+) 1.3mm wide soldering pads
(silver back surface field(aluminum))

Light induced degradation test

Using Xenon lamp (Irradiance of 1000W/m²,with spectrum AM 1.5)to irradiate test cells, after a total irradiation of 5 kwh/m²,the degradation of maximum output power of cells is ≤2%

CTM

Lower cell to module(CTM) power loss:<3%

Anti-PID

Potential Induced Degradation(-1500V,192h):<5%

Packaging, Storage

Solar cells are closely packed with soft sponge around and heat shrink is used around the box unit. Outer packing box must have shock buffer, to be suitable for long-distance delivery.

After packaging, cells should be stored indoors in the conditions of good ventilation, dry, humidity below 60%, and temperature ≤40 °C . Cells should be sampling inspected again if the storage time over 45 days.