CQ SOLAR®

Y156P

156 Polycrystalline 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

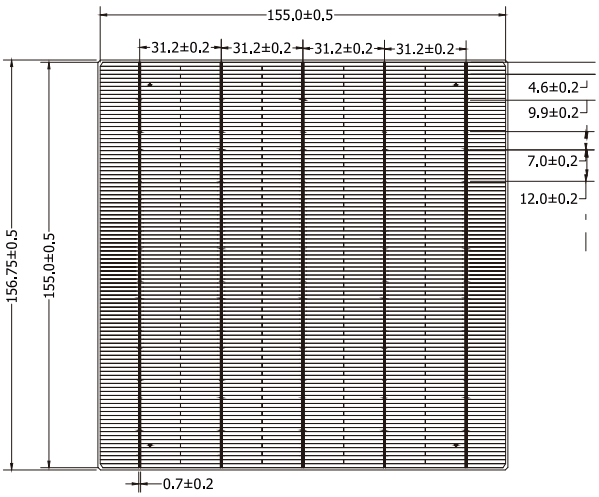
Average efficiency of mass production

Electrical Performance

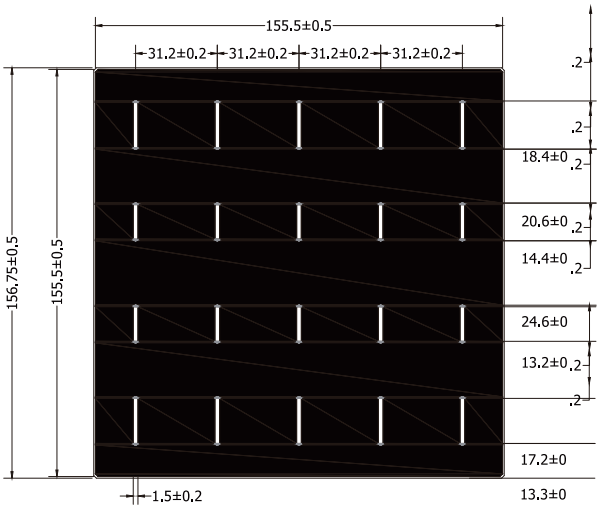
No.	Eiciency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
10	18.60-18.70	4.58	0.584	11.025	0.682	11.605	81.38
09	18.50-18.60	4.56	0.582	11.012	0.681	11.592	81.27
08	18.40-18.50	4.53	0.581	10.997	0.680	11.576	81.13
07	18.30-18.40	4.51	0.579	10.980	0.680	11.559	80.92
06	18.20-18.30	4.49	0.578	10.960	0.678	11.545	80.81
05	18.10-18.20	4.47	0.576	10.938	0.678	11.530	80.62
04	18.00-18.10	4.44	0.575	10.913	0.677	11.512	80.45
03	17.90-18.00	4.41	0.573	10.892	0.676	11.499	80.36
02	17.80-17.90	4.39	0.572	10.868	0.675	11.475	80.25
01	17.70-17.80	4.37	0.571	10.846	0.673	11.467	80.16

Product Appearance

Front



Back



Temperature Coefficient

TkPower	-0.42%/K
TkVoltage	-(0.33±0.03) %/k
TkCurrent	+0.06%/K

Physical Charaacteristics

Substrate material	Poly-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.