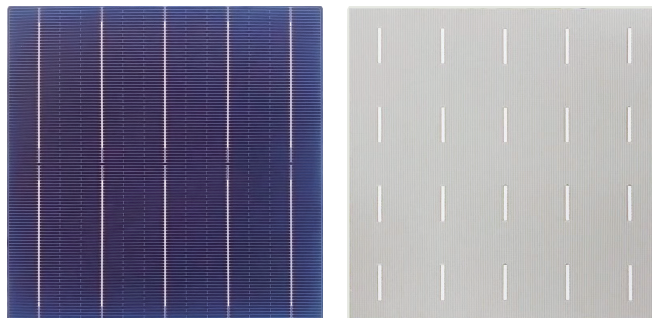


FMC156.75B5

Poly-crystalline solar cell (black silicon)



Appearance

Dimension:	156.75mm ± 0.25mm;
Diagonal:	φ220.2mm ± 0.5mm;
Silicon model:	Black silicon
Thickness:	220μm ± 20μm
Front:	Metal catalyzed chemical corrosion suede, blue silicon nitride anti-reflection coatings,5 silver busbar, 0.7±0.05 mm silver busbar
Back:	Full-surface aluminum back-surface field, 1.7±0.1mm (silver / aluminum)discontinuous soldering pads

Features

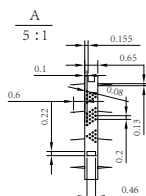
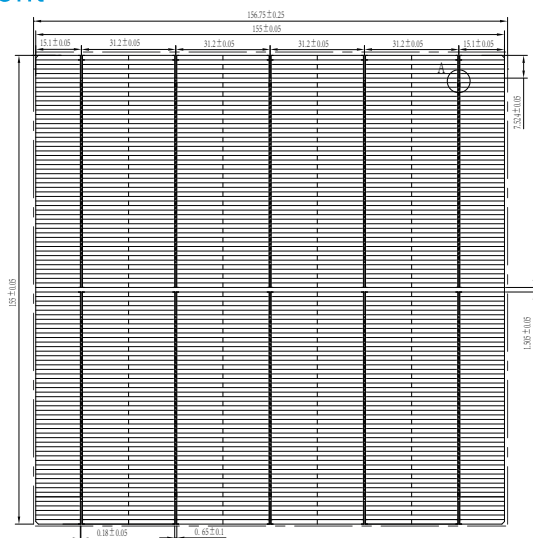
- High conversion efficiency resulting in superior power output performance
- Outstanding power output even in low light conditions
- Optimized design for ease of soldering and lamination
- Long-term stability, reliability and performance
- Low breakage rate
- Color uniformity

Production and Quality control

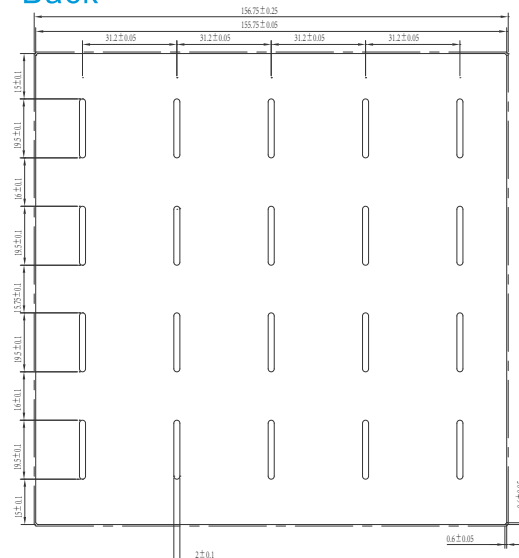
- Precision cell efficiency sorting procedures
- Stringent criteria for color uniformity and appearance
- Reverse current and shunt resistance screening
- ISO9001,ISO14001 and OHSAS 18001 certified

Drawings:

Front



Back



Electrical Performance:

Gear	Conversion efficiency rating (%)	Pm (W)	Voc (V)	Isc (A)	Vm (V)	Im (A)
19.4	≥19.40	4.77	0.638	9.288	0.552	8.637
19.3	≥19.30~19.40	4.74	0.637	9.243	0.549	8.632
19.2	≥19.20~19.30	4.72	0.636	9.219	0.547	8.628
19.1	≥19.10~19.20	4.69	0.636	9.160	0.544	8.625
19.0	≥19.00~19.10	4.67	0.636	9.139	0.542	8.621
18.9	≥18.90~19.00	4.64	0.635	9.132	0.540	8.611
18.8	≥18.80~18.90	4.62	0.633	9.127	0.537	8.606
18.7	≥18.70~18.80	4.59	0.633	9.117	0.535	8.579
18.6	≥18.60~18.70	4.57	0.632	9.080	0.534	8.558
18.5	≥18.50~18.60	4.55	0.631	9.038	0.533	8.537
18.4	≥18.40~18.50	4.52	0.630	9.024	0.533	8.485
18.3	≥18.30~18.40	4.50	0.628	8.940	0.532	8.454
18.2	≥18.20~18.30	4.47	0.627	8.901	0.531	8.436
18.1	≥18.10~18.20	4.45	0.625	8.884	0.529	8.412
18.0	≥18.00~18.10	4.43	0.624	8.875	0.528	8.390
17.9	≥17.90~18.00	4.40	0.622	8.865	0.526	8.365
17.8	≥17.80~17.90	4.38	0.621	8.851	0.524	8.359
17.6	≥17.60~17.80	4.33	0.618	8.620	0.551	7.858

*Test condition : AM1.5, 1000W/m² , 25 C . Average accuracy of all tested figures is ±1.5% rel.

Temperature coefficients:

Current temperature coefficient	$\alpha(I_{sc})$	+0.06 %/C
Voltage temperature coefficient	$\beta(V_{oc})$	-0.36%/C
Power temperature coefficient	$\gamma(P_{max})$	-0.36%/C

*Test condition : AM1.5, 1000W/m² , 25 C .

Solderability:

Peel strength ≥1.5N/mm

The above can be obtained by soldering iron an 300 C -400 C ,with UZON regular flux and ribbon.

*however this may vary due to different flux, ribbons soldering methods and parameters used by the customers.

Spectral response diagram (quantum response):

QE VS. Wavelength

