

Diamond Series

Features Performance and Quality

- Industry-Leading efficiency of P-type mono-crystalline silicon solar cell
- Robust reliability performance for potential module benefit beyond 25 years
- Compatible with present mainstream module manufacturing process
- Standard cells calibrated by Fraunhofer ISE
- 100% in-line optical and electrical inspection

G156S5 6" Monocrystalline Silicon Solar Cell

Pattern Code **5BB CM**

PHYSICAL CHARACTERISTICS

Dimensions 156.75mm × 156.75mm ± 0.3mm (D:210mm)

Thickness (Si) 200μm +/- 30μm

Front Alkaline textured, SiNx anti-reflecting coating,
Color: Light Blue, Blue, Dark Blue & Dark Blue 1
5 bus-bars (Solid) width 0.7 mm ± 0.1mm
Distance between bus-bars: 31.2 mm ± 0.1mm

Back Aluminum local back surface field
5 Bus-bars(Segment) width 1.5 mm ± 0.1mm
Distance between bus-bars: 31.2 mm ± 0.1mm

ELECTRICAL CHARACTERISTICS

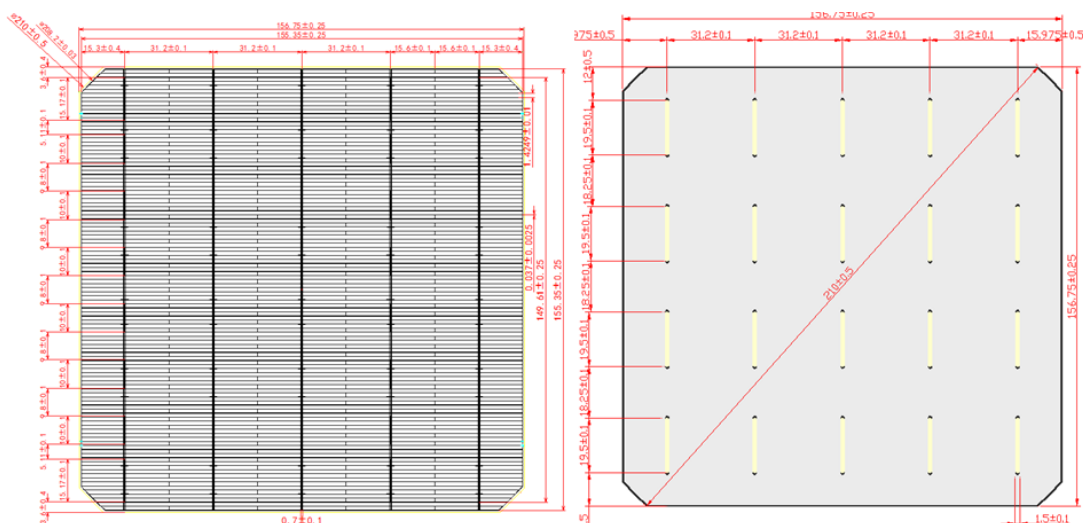
Code		21.9	21.8	21.7	21.6	21.5	21.4	21.3	21.2	21.1	20.9
Power	[W]	5.35	5.33	5.30	5.28	5.25	5.23	5.20	5.18	5.16	5.11
Short Circuit Current	Isc [A]	9.96	9.95	9.94	9.92	9.91	9.90	9.89	9.88	9.87	9.83
Open Circuit Voltage	Voc [mV]	671	670	669	668	667	666	666	665	663	661
Current at 0.5V	[A]	9.87	9.85	9.84	9.82	9.80	9.78	9.77	9.75	9.73	9.68
Maximum Power Current	Impp [A]	9.41	9.39	9.38	9.36	9.34	9.33	9.31	9.29	9.28	9.24
Maximum Power Voltage	Vmpp [mV]	569	568	566	565	563	562	560	559	557	554
Fill Factor	[%]	80.15	80.00	79.86	79.75	79.56	79.37	79.21	79.10	78.98	78.78

Temperature Coefficients Isc: 0.042%/K, Voc: -0.2815%/K, FF: -0.1045%/K, Power: -0.3627%/K

The above data are average figures presently measured. Accuracy of eff. measurement is ±0.1%.

Reference data are calibrated by Fraunhofer ISE Freiburg.

APPEARANCE



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