Product Specifications 156mm pseudo square Mono Crystalline 2 BUSBAR Solar Cells.

1. Highlights:

- ✓ Narrow cell banding offers best cell to module wattage realization.
- ✓ 100% grading on "Peak Power".
- ✓ 100% check on visual appearance.
- ✓ Each cell produced at our facility undergoes a series of through quality test.
- ✓ Free from micro cracks.
- ✓ Reference edge on both faces for easier orientation.

2. Cell Characteristics: General

2.1	Type of cell	: Mono crystalline
2.2	Geometry	: Pseudo square

3. Cell Characteristics: Mechanical

3.1	Length	: 156.0 ± 0.5 mm
3.2	Width	: 156.0 ± 0.5 mm
3.3	Diagonal length /Corner dia	: 200.0 ± 0.5 / 201.0±0.5 mm
3.4	Nominal surface area	: 238.95 cm² / 239.30 cm²
3.5	Accuracy of angles	: 90º ± 0.3°
3.6	Thickness	: 200 ± 30 (or) 180 ±30 µm
3.7	Maximum bow	: < 1.5 mm
3.8	Bus bar width (Front)	: 2.0 mm
3.9	Continuous Pad width (Back)	: 3.0 mm
3.10	Distance between bus bars	: 75.0 mm (from center to center)

4. Cell Characteristics: Visual

4.1	A.R. coating	: Silicon nitride
4.2	Back side surface	: Aluminum
4.3	Bus bar material front	: Silver
4.4	Bus bar material back	: Silver Aluminum

4.5 Micro Cracks : Free from micro cracks

5. Cell Characteristics: Electrical

Cells are graded at Peak power with 36 mW banding, the typical grading criteria bin is given below,

5.1 **Wattage Table**

Efficiency %	Peak Power	Typical Parameters				
η [%]	WATTS – [W]	I_{MPP}- [A]	V_{MPP} [V]	I_{SC} [A]	V_{OC} [V]	FF [%]
17.61	**4.210**	8.090	0.521	8.594	0.614	79.3
17.46	**4.174**	8.083	0.520	8.580	0.612	79.2
17.31	**4.138**	8.060	0.514	8.569	0.611	79.1
17.16	**4.102**	8.020	0.513	8.530	0.610	79.1
17.01	**4.066**	7.880	0.516	8.448	0.613	78.7
16.86	**4.031**	7.780	0.515	8.404	0.613	78.6
16.71	**3.995**	7.770	0.514	8.356	0.611	78.5
16.56	**3.959**	7.720	0.513	8.301	0.611	78.4
16.41	**3.923**	7.660	0.512	8.260	0.610	78.3

Note: Parameters specified, are at standard test condition STC, 25°C Ambient, 100 mW/cm^2 irradiance.

5.2 Shunt Resistance : Greater than 15 ohms at-12V

I. Method of measurement : Dark IV

5.3 Polarity : Front negative, back positive

5.4 Temperature Coefficient

A. Open circuit Voltage (dV_{OC}/dt) : -2.221 mV/K (- 0.379% of Voc/ K)

B. Short circuit current (dI_{SC}/dt) : +2.28 mA/K (+0.0396% of Isc/K)

C. Fill factor (dV_{FF}/dt) : -0.121 %/K

D. Peak Power : -0.48456% / deg K

6. Packing:

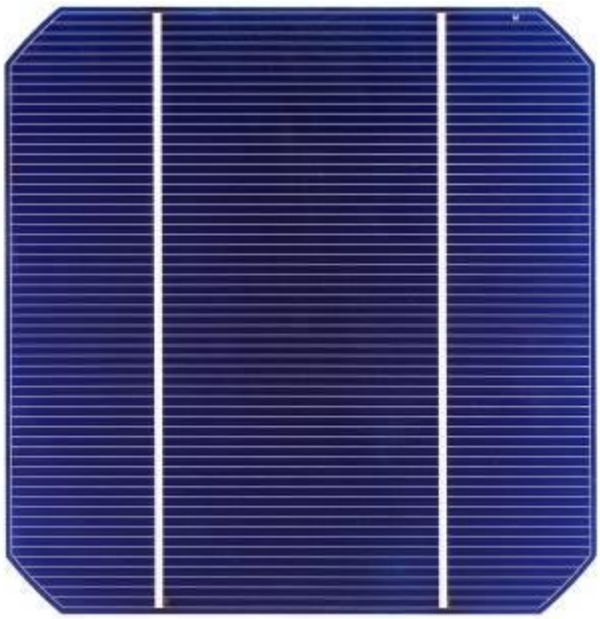
Figure. A

Figure.B

Figure.C

Figure.D

Figure. A : 100 Cells Bunch
Figure. B : 800 Cells in one Small Box
Figure. C : 19200 Cells in one Wooden Box
Figure. D : Transit monitoring



7. Cell Drawing: