

N-type Mono-crystalline Silicon Bifacial Solar Cell

MSPVLM2B5 20.00-23.00

Product Characteristics

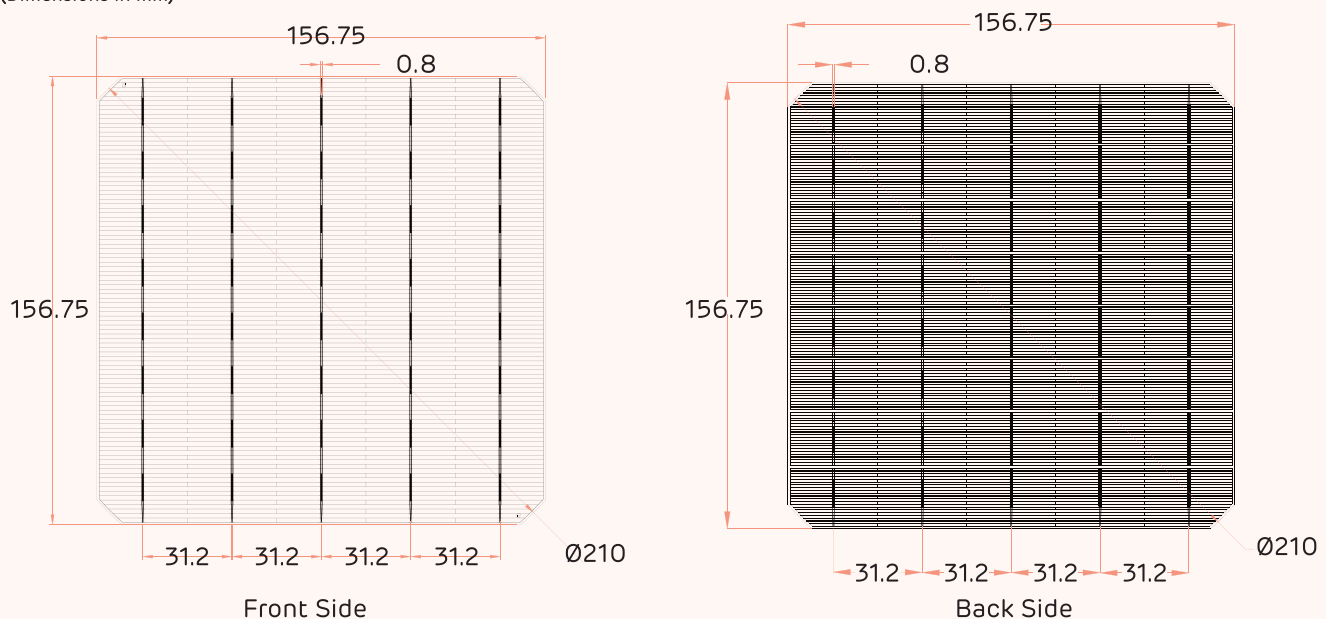
- High conversion efficiency with high reliability
- No light-induced degradation
- Uniform cell performance with stable process control
- Both sides can generate electricity
- Cells up to 85% Bifaciality
- Low mismatch of cell performance during encapsulation
- Excellent power generation performance under low irradiation
- Low hotspot effect
- Perfect appearance and colour uniformity

Quality Control

- Proper inspection through incoming production
- Outgoing and packaging
- Efficiency tested within $\pm 0.1\%$ accuracy
- 100% checked for reverse current and visual appearance
- Reference cell calibrated from Fraunhofer
- ISO 9001, ISO 14001 and OHSAS 18001 certified by TUV NORD
- Soldering peel strength ≥ 1.0 N/mm Bus Bar width
- Only positive power tolerance binning

Cell layout

(Dimensions in mm)



Technical Data

Electric Performance

Class	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Current (A)	*Short Circuit Current (A)	*Maximum Power Voltage (V)	*Open Circuit Voltage (V)
A-195	19.5-19.6	4.76	8.965	9.557	0.532	0.640
A-196	19.6-19.7	4.79	8.988	9.559	0.533	0.641
A-197	19.7-19.8	4.81	9.000	9.566	0.535	0.642
A-198	19.8-19.9	4.84	9.013	9.570	0.537	0.643
A-199	19.9-20.0	4.86	9.024	9.574	0.539	0.644
A-200	20.0-20.1	4.89	9.038	9.575	0.541	0.645
A-201	20.1-20.2	4.91	9.045	9.578	0.543	0.646
A-202	20.2-20.3	4.94	9.053	9.583	0.546	0.647
A-203	20.3-20.4	4.96	9.071	9.586	0.548	0.648
A-204	20.4-20.5	4.98	9.083	9.589	0.550	0.649
A-205	20.5-20.6	5.01	9.095	9.593	0.552	0.650
A-206	20.6-20.7	5.03	9.107	9.596	0.554	0.651
A-207	20.7-20.8	5.06	9.119	9.600	0.556	0.652
A-208	20.8-20.9	5.08	9.132	9.603	0.558	0.653
A-209	20.9-21.0	5.11	9.144	9.606	0.560	0.654
A-210	21.0-22.0	5.13	9.156	9.610	0.563	0.655

Test condition: 1000 W/m², AM 1.5, 25°C; Power measuring tolerance: ±1.5% rel, Above data reference is for front side only.

Physical Characteristics

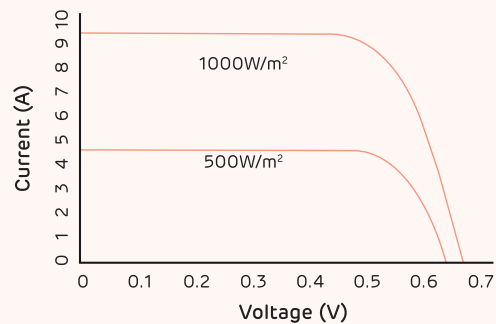
Dimension	156.75mmx156.75mm±0.25mm, Φ210mm±0.25mm;
Cell Thickness	190µm±20µm
Front side	0.8mm wide Bus Bars, Silicon nitride anti-reflection coating
Back side	0.8mm wide Bus Bars, Silicon nitride coating

Temperature Coefficients

Current Temperature Coefficient	+0.048%/K
Voltage Temperature Coefficient	-0.32 %/K
Power Temperature Coefficient	-0.40%/K

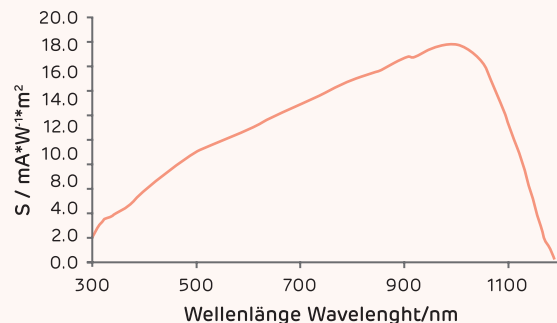
Light Intensity Dependence

Intensity(W/m ²)	Vmpp(%)	Impp(%)
1000	100	100
900	99.8	90.2
500	98.1	50.3
300	96.5	30.2
200	95.1	20.1



Packaging

- Minimizes the risk of broken cells with special design
- Label with product information



Note:
 • The specifications included in this datasheet are subject to change without notice. Adani Solar reserves the right for the final interpretation of all figures reported in this document.



Established in 2016, MSPVL is a wholly-owned subsidiary of Adani Group. We are committed in supplying high-efficient N-Bifacial solar products with our solid foundation and rich R&D strength, our products are characterized of high conversion efficiency, Zero LID, Zero Bow and great weak-illumination response.

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