

# Mono-crystalline PERC Solar Cell

MSPVLM2M5 19.00-22.50

## Features

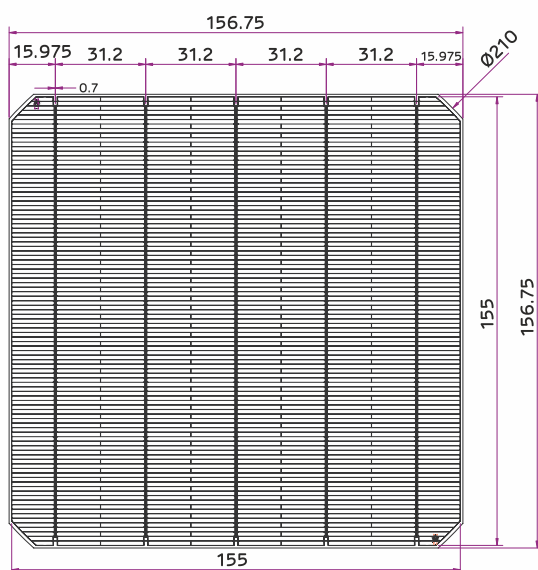
- High-efficiency solar cells with an anisotropically etched surface
- Silicon nitride anti-reflection coating
- Silver front contact bars and dashed surface aluminium back contact field
- Perfect appearance and color uniformity

## Performance and Quality

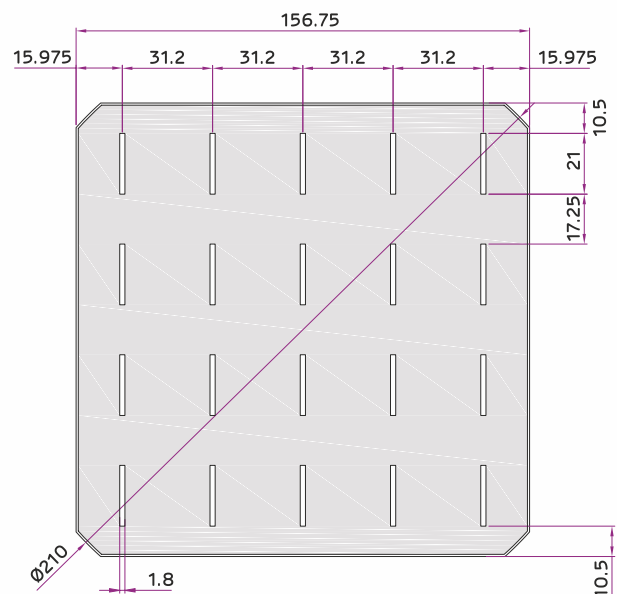
- Proper handling from incoming inspection through production, outgoing inspection and packaging
- 100% checked for reverse current and visual appearance
- Calibrated against Fraunhofer ISE
- RoHS compliance
- 100% PID resistance
- LID regenerated solar cells to minimize LID loss
- ISO 9001, ISO 14001 and OHSAS 18001 certified by TUV NORD
- Soldering peel strength  $\geq 1.0$  N/mm Bus Bar width
- Only positive power tolerance binning

## Cell layout

(Dimensions in mm)



Front Side



Back Side



# 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	8.956	9.557	0.532	0.640
A-196	19.6-19.7	4.79	8.985	9.559	0.533	0.641
A-197	19.7-19.8	4.81	8.998	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	9.052	9.583	0.546	0.647
A-203	20.3-20.4	4.96	9.058	9.586	0.548	0.648
A-204	20.4-20.5	4.98	9.063	9.589	0.550	0.649
A-205	20.5-20.6	5.01	9.072	9.593	0.552	0.650
A-206	20.6-20.7	5.03	9.082	9.596	0.554	0.651
A-207	20.7-20.8	5.06	9.094	9.600	0.556	0.652
A-208	20.8-20.9	5.08	9.112	9.603	0.558	0.653
A-209	20.9-21.0	5.11	9.121	9.606	0.560	0.654
A-210	21.0-21.1	5.13	9.129	9.610	0.562	0.655
A-211	21.1-21.2	5.16	9.142	9.614	0.564	0.656
A-212	21.2-21.3	5.18	9.148	9.617	0.567	0.657
A-213	21.3-21.4	5.20	9.153	9.620	0.569	0.658
A-214	21.4-21.5	5.23	9.167	9.624	0.571	0.659
A-215	21.5-21.6	5.25	9.176	9.627	0.572	0.660

Test condition: 1000 W/m<sup>2</sup>, AM 1.5, 25°C; Power measuring tolerance: ±1.5% rel

### Physical Characteristics

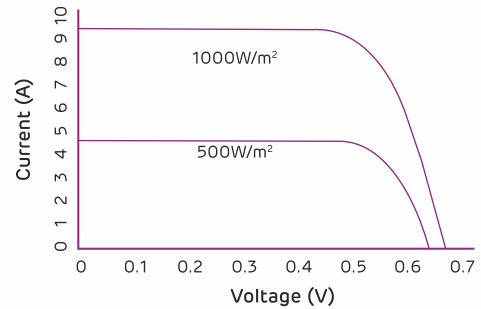
Dimension	156.75 mm x 156.75 mm ± 0.25 mm
Diagonal	210 mm ± 0.5 mm
Thickness (si)	190 µm ± 30 µm
Front Side (-)	Silicon nitride anti-reflection coating 0.7 mm silver Bus Bar
Back Side (-)	Passivated Emitter(SiON and SiNx dual layer) Rear Contact 1.8 mm (silver) discontinuous soldering pads

### Temperature Coefficients

Current Temperature Coefficient	0.03 %/K
Voltage Temperature Coefficient	-0.35 %/K
Power Temperature Coefficient	-0.41 %/K

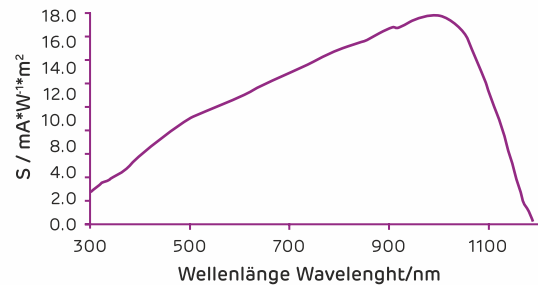
### Light Intensity Dependence

Intensity(W/m2)	Vmpp(%)	Impp(%)
1000	100.0	100.0
900	99.8	90.00
500	98.4	50.00
300	96.2	30.00
200	94.1	20.00



### Packaging

Minimize 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.

\* "Adani Solar" is the brand name for legal entity "Mundra Solar PV Ltd." having its registered office at "Adani Corporate House, Shantigram, S G Highway, Ahmedabad-382 421, Gujarat, India" and manufacturing unit at "Revenue Survey No: 180/P City: Kutch Taluka: Mundra, Village: Tunda, Post office: Bidada; Pin: 370535".