



# Multi-crystalline Silicon Solar Cell

MSPVLM2P5 17.00-21.00

## Features

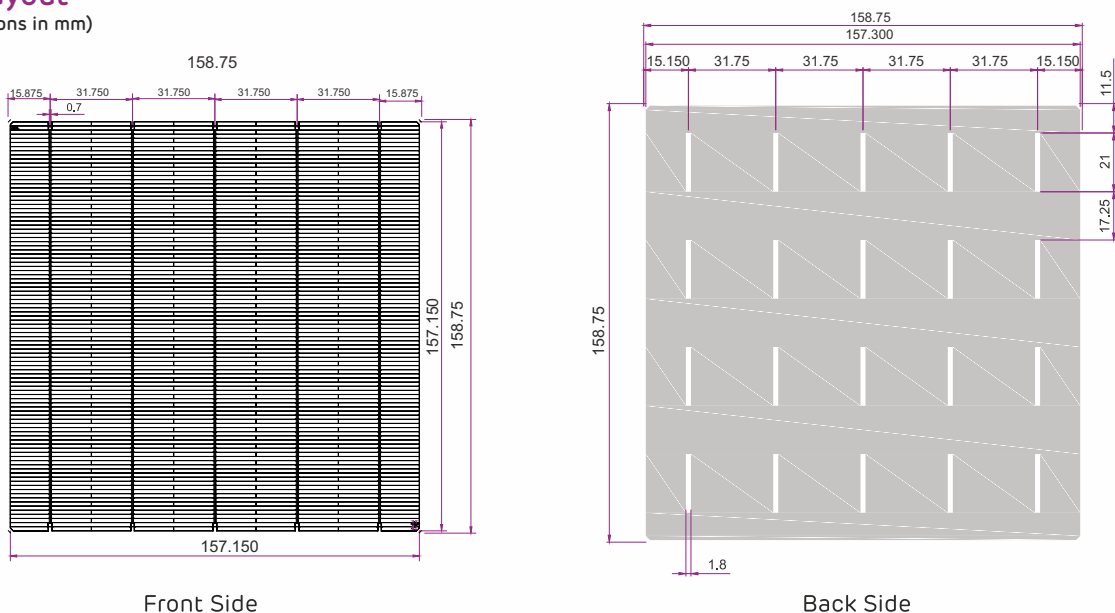
- High efficiency solar cells with an acidic etched surface
- Silicon nitride anti-reflection coating
- Silver front contact bars and covered aluminium back contact field
- Perfect appearance and colour uniformity

## 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
- 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)



# Technical Data

## Electrical Characteristics

Class	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Current (A)	*Short Circuit Current (A)	*Maximum Power Voltage (V)	*Open Circuit Voltage (V)
A-187	18.7-18.80	4.727	8.706	9.243	0.543	0.639
A-188	18.80-18.90	4.751	8.734	9.253	0.544	0.639
A-189	18.90-19.00	4.776	8.761	9.270	0.545	0.640
A-190	19.00-19.10	4.802	8.786	9.291	0.547	0.641
A-191	19.10-19.20	4.826	8.809	9.312	0.548	0.642
A-192	19.20-19.30	4.851	8.829	9.331	0.549	0.644
A-193	19.30-19.40	4.876	8.851	9.352	0.551	0.645
A-194	19.40-19.50	4.903	8.875	9.374	0.553	0.646
A-195	19.50-19.60	4.929	8.898	9.395	0.554	0.648
A-196	19.60-19.70	4.955	8.920	9.416	0.556	0.649

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

## Physical Characteristics

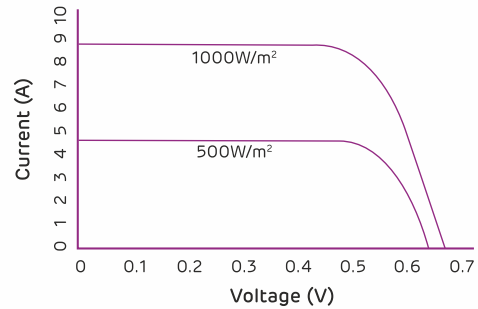
Dimension	158.75 mm X 158.75 mm ± 0.25 mm
Cell Thickness (si)	190 μm ± 30 μm
Front side (-)	Silicon nitride anti-reflection coating 0.7 mm silver Bus Bar
Back side (+)	Covered with Aluminium BSF, Rear Contact 1.8 mm (silver) discontinuous soldering pads

## Temperature Coefficients

Current Temperature Coefficient	0.06 %/K
Voltage Temperature Coefficient	-0.32 %/K
Power Temperature Coefficient	-0.40 %/K

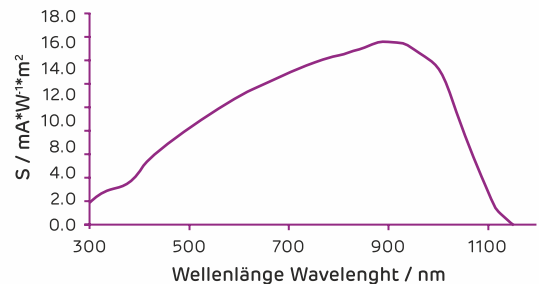
## Light Intensity Dependence

Intensity(W/m <sup>2</sup> )	Vmpp(%)	Impp(%)
1000	100.0	100.0
900	99.8	89.50
500	97.7	50.00
300	95.9	29.80
200	93.6	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.