

# DAS-NMAD5B

## N-Type Mono Bifacial Cell

### Product Feature

- ◇ High conversion efficiency, Up to 22.5%
- ◇ Bifaciality ratio  $\geq 80\%$
- ◇ Zero Light Induced Degradation
- ◇ PID resistant
- ◇ Power temperature coefficient  $\leq -0.35\%/^{\circ}\text{C}$
- ◇ Relative conversion efficiency ( $200\text{W}/\text{m}^2$ )  $\geq 97\%$

### Quality Control

- ◇ The accuracy of the efficiency test is controlled at  $\pm 0.1\%$
- ◇ IV/EL/Appearance 100% automatic inspection
- ◇ Calibration Cell source to Fraunhofer ISE

### Management System Certification

- ◇ ISO 9001:2015 Quality Management System
- ◇ ISO 14001:2015 Environmental Management System
- ◇ ISO 45001:2018 Occupational Health and Safety Management System

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## Product Features

Dimension:	158.75mmx158.75mm±0.25mm
Cell Thickness:	170μm±20μm
Front side:	0.7±0.1mm wide bus bars, 102 finger grids, SiN
Back side:	0.7±0.1mm wide bus bars, 102 finger grids, SiN

## Temperature Coefficients

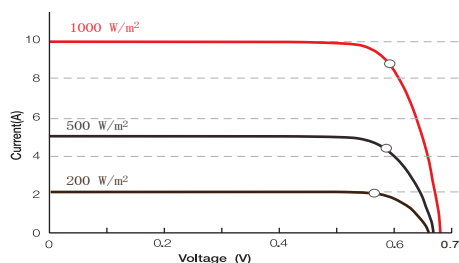
Current Temperature Coefficient	Tkcurrent: +0.048 %/K
Voltage Temperature Coefficient	Tkvoltage: -0.30 %/K
Power Temperature Coefficient	Tkpower: -0.35 %/K

## Electric Performance

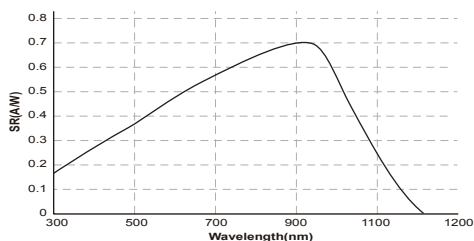
Eff(%)	Pmpp(W)	Ump(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
22.80%	5.75	0.585	9.739	0.695	10.219	81.30
22.70%	5.72	0.584	9.713	0.694	10.204	81.16
22.60%	5.70	0.583	9.686	0.693	10.192	81.02
22.50%	5.67	0.582	9.659	0.692	10.182	80.88
22.40%	5.64	0.581	9.631	0.691	10.165	80.74
22.30%	5.62	0.580	9.604	0.690	10.151	80.60
22.20%	5.59	0.579	9.594	0.689	10.131	80.46
22.10%	5.57	0.578	9.583	0.688	10.126	80.32
22.00%	5.54	0.577	9.572	0.687	10.104	80.18
21.90%	5.52	0.576	9.545	0.686	10.090	80.04
21.80%	5.49	0.575	9.517	0.685	10.065	79.90

- Standard Test Conditions: 1000W/ m<sup>2</sup>, AM 1.5, 25°C
- Specifications and data are only for reference.

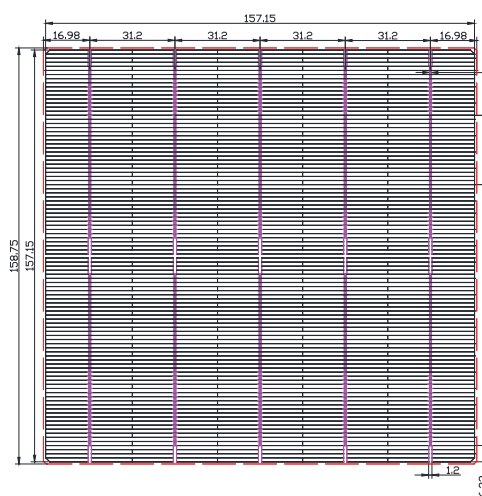
## IV Curve



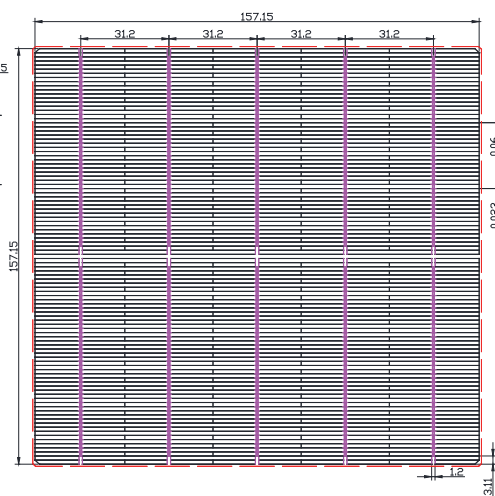
## Spectral Response (SR)



## Front side



## Rear side



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