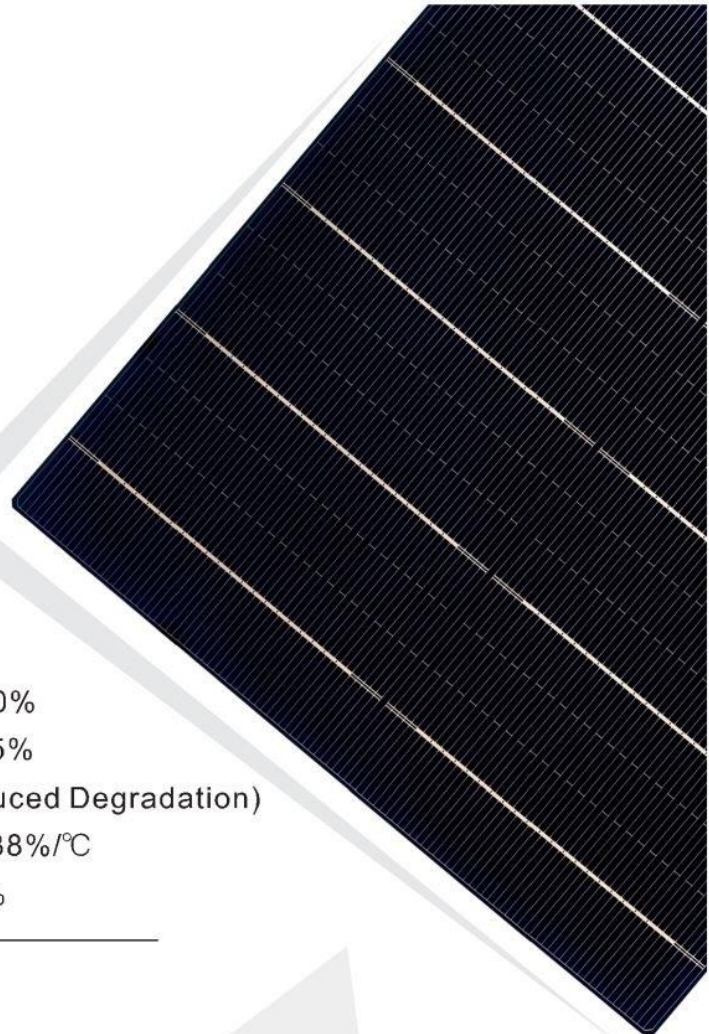




P-Type Mono Cell

MS-MSC158-5S5B



★ Product Feature

High conversion efficiency, Up to 23.0%
LID(Light Induced Degradation) $\leq 2.5\%$
High resistance of PID (Potential Induced Degradation)
Power temperature coefficient $\leq -0.38\%/^{\circ}\text{C}$
Weak light response($200\text{W}/\text{m}^2$) $\geq 95\%$

⊕ Quality Control

Efficiency test accuracy is $\pm 0.1\%$
100% automatic inspection of IV/EL/Appearance
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

Product Features

| | |
|----------------|---|
| Dimension | 158.75mmx158.75mm±0.25mm, Φ223.0mm±0.25mm |
| Cell Thickness | 180μm±20μm |
| Front side | 0.7±0.15mm wide bus bars, 108 finger grids , SiN |
| Back side | 2.0±0.5 mm wide discontinuous soldering pads, Aluminum back surface field |

Temperature Coefficients

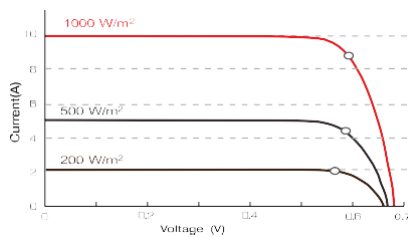
| | |
|---------------------------------|-----------------------|
| Current Temperature Coefficient | Tkcurrent: +0.048 %/K |
| Voltage Temperature Coefficient | Tkvoltage: -0.31 %/K |
| Power Temperature Coefficient | Tkpower: -0.38 %/K |

Electrical data

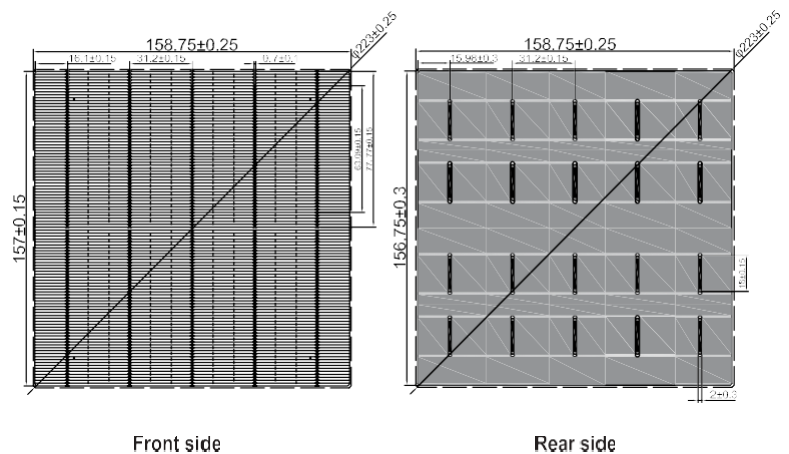
| Eff(%) | Pmpp(W) | Ump(V) | Imp(A) | Uoc(V) | Isc(A) | FF(%) |
|--------|---------|--------|--------|--------|--------|-------|
| 23.0 | 5.80 | 0.597 | 9.708 | 0.691 | 10.380 | 80.82 |
| 22.9 | 5.77 | 0.595 | 9.698 | 0.690 | 10.360 | 80.74 |
| 22.8 | 5.75 | 0.593 | 9.689 | 0.689 | 10.340 | 80.66 |
| 22.7 | 5.72 | 0.591 | 9.679 | 0.688 | 10.320 | 80.58 |
| 22.6 | 5.69 | 0.589 | 9.669 | 0.687 | 10.300 | 80.50 |
| 22.5 | 5.67 | 0.587 | 9.659 | 0.686 | 10.280 | 80.41 |
| 22.4 | 5.64 | 0.585 | 9.649 | 0.685 | 10.260 | 80.33 |
| 22.3 | 5.62 | 0.583 | 9.639 | 0.684 | 10.240 | 80.24 |
| 22.2 | 5.59 | 0.581 | 9.629 | 0.683 | 10.220 | 80.16 |
| 22.1 | 5.57 | 0.579 | 9.618 | 0.682 | 10.200 | 80.07 |
| 22.0 | 5.54 | 0.577 | 9.608 | 0.681 | 10.180 | 79.98 |

• Standard Test Conditions: 1000W/m², AM 1.5, 25°C Specifications and data are only for reference.

IV Curve



Dimension



Spectral Response(SR)

