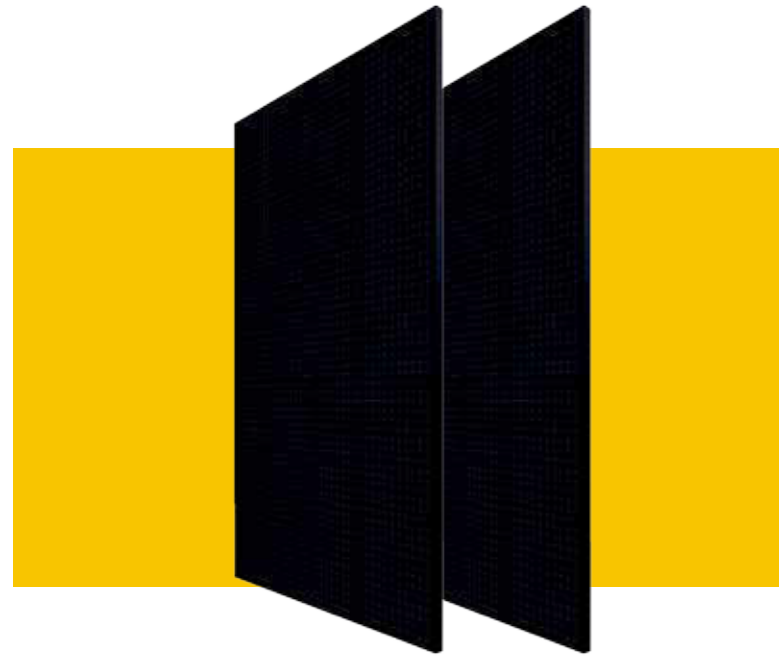


# MSMDxxxM6-66 166 M6 MWT cells half cut

## 390W-410W



### KEY FEATURES



**Full Black**  
All black design for more elegant applications



**Innovative Layout**  
Innovative back contact module layout with asymmetric design for higher efficiency power



**High ROI**  
Single-glass modules with global 30-year performance warranty bring higher return on investment



**High Efficiency**  
Busbar-free design increases cell conversion efficiency, more output can be achieved at low irradiance conditions



**High Reliability**  
Conductive back sheet's 2D encapsulation avoids welding stress and micro crack, resulting lower degradation under multiple harsh testing conditions



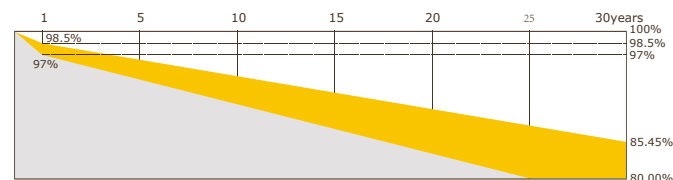
**Lead Free**  
Eco-friendly PV design achieves lead-free MWT module without soldering materials

### PRODUCT CERTIFICATES



### WARRANTY

- Our linear power guarantee
- Standard linear power guarantee



※1st year degradation less than 1.5%, 30 years linear power output 85.45% guaranteed.



Enhanced product guarantee on product and workmanship



Linear power output warranty

# MSMDxxxM6-66

## ELECTRICAL CHARACTERISTICS

| STC                             | 390             | 395    | 400    | 405    | 410    |
|---------------------------------|-----------------|--------|--------|--------|--------|
| Maximum Power at STC (Pmax)     | 390W            | 395W   | 400W   | 405W   | 410W   |
| Optimum Operating Voltage (Vmp) | 36.7V           | 36.9V  | 37.1V  | 37.3V  | 37.6V  |
| Optimum Operating Current (Imp) | 10.63A          | 10.73A | 10.79A | 10.86A | 10.90A |
| Open Circuit Voltage (Voc)      | 44.5V           | 44.7V  | 44.9V  | 45.1V  | 45.8V  |
| Short Circuit Current (Isc)     | 11.14A          | 11.21A | 11.28A | 11.35A | 11.41A |
| Module Efficiency               | 19.9%           | 20.2%  | 20.5%  | 20.7%  | 21.0%  |
| Operating Module Temperature    | -40°C to +85°C  |        |        |        |        |
| Maximum System Voltage          | 1500 V DC (IEC) |        |        |        |        |
| Maximum Series Fuse Rating      | 20A             |        |        |        |        |
| Power Tolerance                 | 0~+5W           |        |        |        |        |

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 3%

| NMOT                            | 390   | 395   | 400   | 405                       | 410   |
|---------------------------------|-------|-------|-------|---------------------------|-------|
| Maximum Power at NMOT (Pmax)    | 292W  | 296W  | 300W  | 305W                      | 306W  |
| Optimum Operating Voltage (Vmp) | 34.4V | 34.6V | 34.8V | 35.0V                     | 35.4V |
| Optimum Operating Current (Imp) | 8.49A | 8.56A | 8.63A | 8.71A                     | 8.64A |
| Open Circuit Voltage (Voc)      | 41.6V | 41.8V | 42.0V | 42.2V                     | 42.7V |
| Short Circuit Current (Isc)     | 9.00A | 9.06A | 9.12A | 9.18A </td <td>9.25A</td> | 9.25A |

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

## TEMPERATURE CHARACTERISTICS

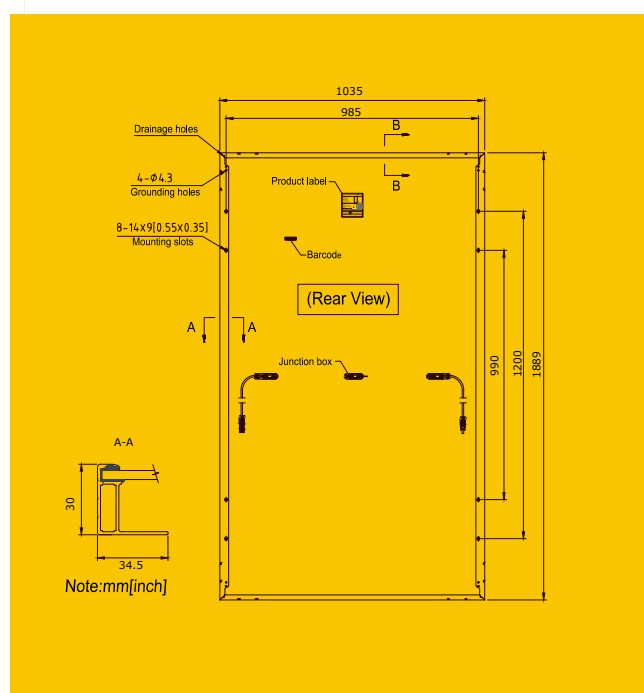
|   |            |
|---|------------|
| Nominal Module Operating Temperature (NMOT) | 43±2°C     |
| Temperature Coefficient of Pmax             | -0.36 %/°C |
| Temperature Coefficient of Voc              | -0.28 %/°C |
| Temperature Coefficient of Isc              | 0.06 %/°C  |

## MECHANICAL CHARACTERISTICS

|               |   |
|---------------|---|
| Solar Cell    | Monocrystalline silicon 166 mm                                |
| No. of Cells  | 132 (6 × 22)  |
| Dimensions    | 1889 × 1035 × 30 mm   |
| Weight        | 20.5 kg   |
| Front Glass   | High Transmittance AR Coated Tempered Glass/3.2mm             |
| Frame         | Anodized aluminium alloy/Black                                |
| Junction Box  | IP68  |
| Output Cables | 4.0 mm <sup>2</sup> , cable length 350mm or customized length |

## PACKING CONFIGURATION

|                       |         |
|-----------------------|---------|
| Container             | 40' HC  |
| Pieces per pallet     | 36+36+4 |
| Pallets per container | 12      |
| Pieces per container  | 912     |



Current-Voltage & Power-Voltage Curve (395)

