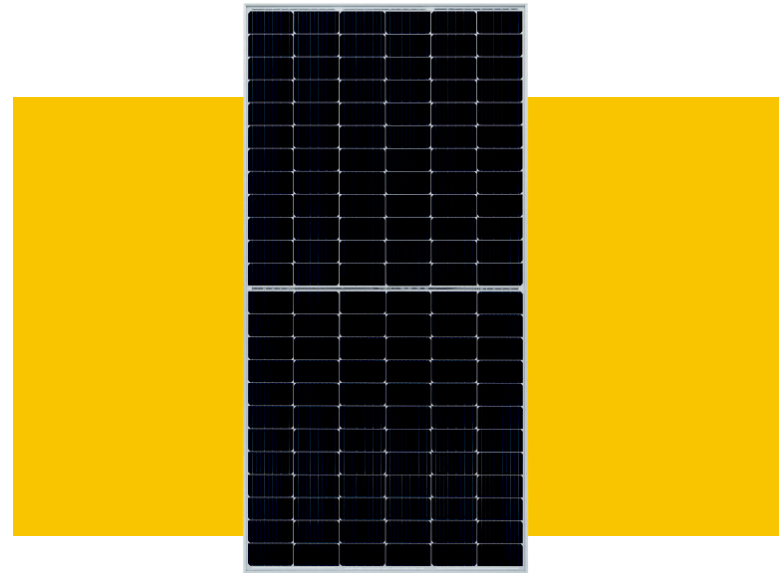







# MSMDxxxM10N-144

## 182mm TOPCon Half Cell Series

# 555W-585W



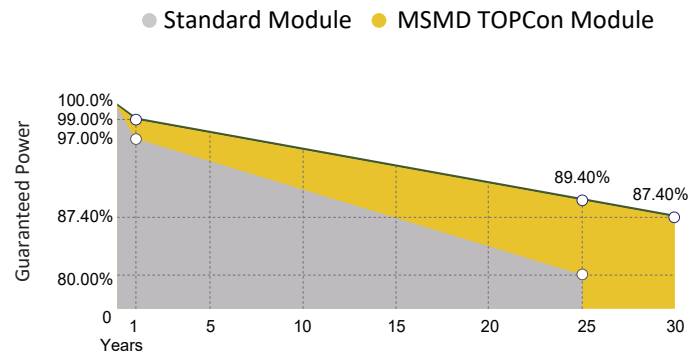
## KEY FEATURES

- 
**MBB half-cut cell technology**  
 New circuit design, lower internal current, lower Rs loss Ga dopped wafer, attenuation<1% (1st year) / ≤0.40% (Linear)
- 
**Significantly lower the risk of hot spot**  
 Special circuit design with much lower hot spot temperature
- 
**Lower LCOE**  
 2% more power generation, lower LCOE
- 
**Excellent Anti-PID performance**  
 2 times of industry standard Anti-PID test by TUV SUD
- 
**IP68 junction box**  
 High waterproof level

**22.69%**  
Module efficiency

**585W**  
Highest power output

## WARRANTY



**12 years** Enhanced product guarantee on product and workmanship

**30 years** Linear power output warranty

## PRODUCT CERTIFICATES



# MSMDxxxM10N-144

## ELECTRICAL CHARACTERISTICS

STC	555	560	565	570	575	580	585
Maximum Power at STC (Pmax)	555W	560W	565W	570W	575W	580W	585W
Optimum Operating Voltage (Vmp)	42.5V	42.7V	42.9V	43.1V	43.3V	43.5V	43.7V
Optimum Operating Current (Imp)	13.06A	13.12A	13.18A	13.23A	13.28A	13.34A	13.39A
Open Circuit Voltage (Voc)	51.2V	51.4V	51.6V	51.8V	52.0V	52.2V	52.4V
Short Circuit Current (Isc)	13.81A	13.87A	13.94A	14.01A	14.08A	14.15A	14.22A
Module Efficiency	21.2%	21.7%	21.9%	22.1%	22.2%	22.4%	22.6%
Operating Module Temperature	-40°C to +85°C						
Maximum System Voltage	1500 V DC (IEC)						
Maximum Series Fuse Rating	25A						
Power Tolerance	0~+5W						

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Measuring tolerance:±3%

NMOT	555	560	565	570	575	580	585
Maximum Power at NMOT (Pmax)	422W	426W	430W	434W	438W	442W	446W
Optimum Operating Voltage (Vmp)	40.0V	40.2V	40.4V	40.6V	40.8V	41.0V	41.2V
Optimum Operating Current (Imp)	10.55A	10.6A	10.65A	10.69A	10.74A	10.78A	10.83A
Open Circuit Voltage (Voc)	48.5V	48.7V	48.9V	49.1V	49.3V	49.5V	49.7V
Short Circuit Current (Isc)	11.09A	11.15A	11.21A	11.26A	11.32A	11.38A	11.43A

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)	42±2°C
Temperature Coefficient of Pmax	-0.30 %/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C

## MECHANICAL CHARACTERISTICS

Solar Cell	N-Type TOPCon Monocrystalline silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 x 1134 x 35 mm
Weight	29kg
Front Glass	High Transmittance AR Coated Tempered Glass/3.2mm
Frame	Anodized aluminium alloy
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	31
Pallets per container	20
Pieces per container	620

