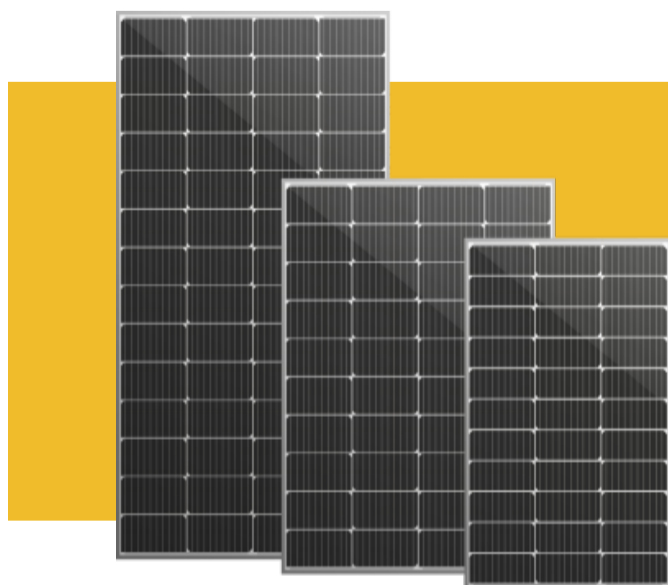


MSMC150AS-18

150W

33-cell N-Type TOPCon Half Cell Monofacial Module



Product Advantages



High module conversion efficiency

Module efficiency up to 21.1% achieved through advanced cell technology and manufacturing process



Lower operating temperature

Lower operating temperature and temperature coefficient increase the power output



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

Module certified to withstand extreme wind (1600 Pascal) and snow loads (3600 Pascal)



IP68 junction box

High waterproof & dustproof level

21.1%

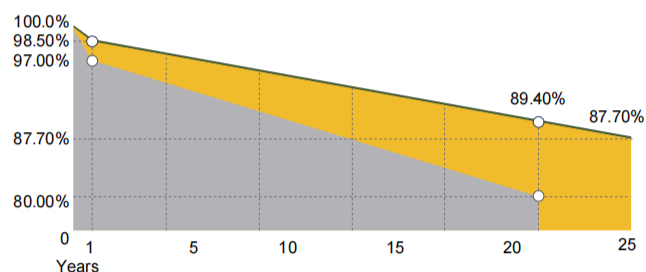
Module efficiency

150W

Highest power output

Performance Warranty

● Standard Module ● MSMD TOPCon Module



-1.50%

First year power degradation

-0.45%

Annual degradation

12
Years

Materials and workmanship warranty

25
Years

Linear power warranty

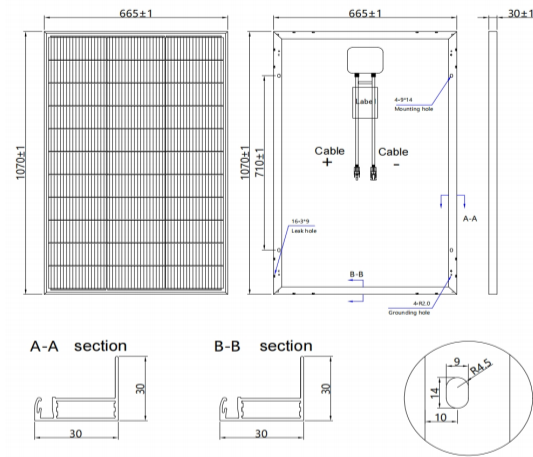
Product Certification



MSMC150AS-18

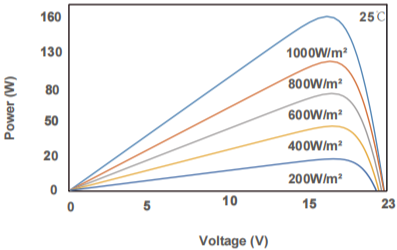
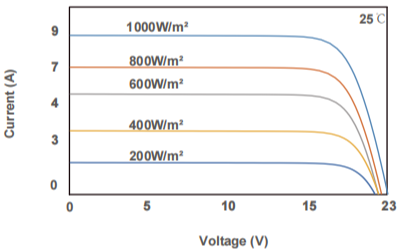
Engineering Drawings

Unit: mm



I-V CURVE

Current-Voltage & Power-Voltage Curve (150)



Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44°C (±2°C)
Temperature Coefficiency of Pmax	-0.35%/°C
Temperature Coefficiency of Voc	-0.29%/°C
Temperature Coefficiency of Isc	0.046%/°C

Safety & Warranty

Safety Class	Class II
Product Warranty	12 yrs Workmanship
Performance Warranty	25 yrs Linear Warranty*

*1st year 98.5%, after 2nd year 0.45% annual degradation to year 25.

Electrical Characteristics (STC*)

MSMC150AS-18	150
Maximum Power (Pmax)	150W
Module Efficiency η_m (%)	21.1%
Optimum Operating Voltage (Vmp)	19.8V
Optimum Operating Current (Imp)	7.58A
Open Circuit Voltage (Voc)	23.1V
Short Circuit Current (Isc)	8.16A
Operating Module Temperature	-40 to+85 C
Maximum System Voltage	DC1000V(IEC)
Maximum Series Fuse	15A
Power Tolerance	0~+5W

*STC: Irradiance 1000 W/m², cell temperature 25 C, AM=1.5, Tolerance of Pmax is within +/- 3%.

NMOT**

Maximum Power (Pmax)	112.2W
Optimum Operating Voltage (Vmp)	18.41V
Optimum Operating Current (Imp)	6.09A
Open Circuit Voltage (Voc)	21.48V
Short Circuit Current (Isc)	6.57A

**NMOT: Irradiance 800W/ m² , ambient temperature 20°C, AM=1.5, wind speed 1m/s

Mechanical Characteristics

Solar Cells	N-Type TOPCon Monocrystalline 210*91mm
Cell Orientation	33 (3×11)
Module Dimensions	1070×665×30 mm
Weight	6.0kg
Junction Box	IP 68 rated
Output Cable	500 mm or customized length
Connectors Type	MC4 compatible
Frame	Anodised aluminum alloy
Front Load	3600 Pa
Rear Load	1600 Pa
Glass Thickness	3.2 mm tempered glass

Shipping Configurations

	HC
Container Length	40'
Pallets Per Container	32
Modules Per Pallet (pcs)	64
Modules Per Container (pcs)	2048