

SUNBOOST

620-640W

MS640M-66H

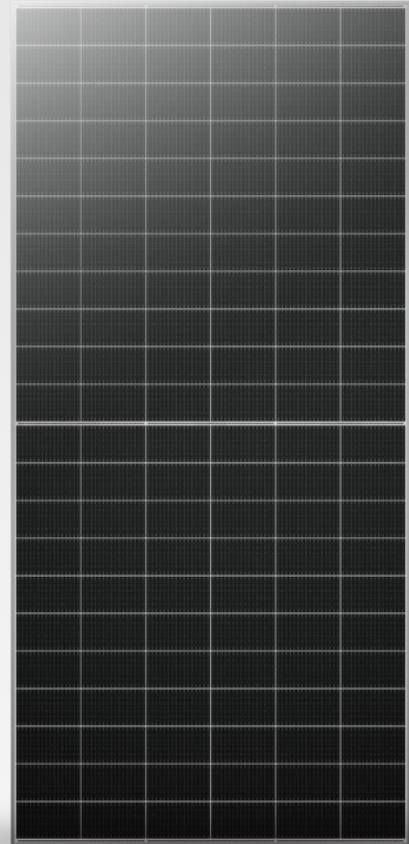
N-Type TOPCon
Solar Module

Qualidade Garantida

25-Year Warranty for Materials and Processing
30-Year Warranty for Extra Linear Power Output

23.68%

Max. Module Efficiency



N-type 182*210mm Cell

Adopting the 182*210mm N-type TOPCon battery cells with highest efficiency.

Higher Output Power

Module adopts 132 pcs of 182*210mm half cells, the maximum.

Load Capacity

Mechanical load tests including wind load 2400Pa and snow.

PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.

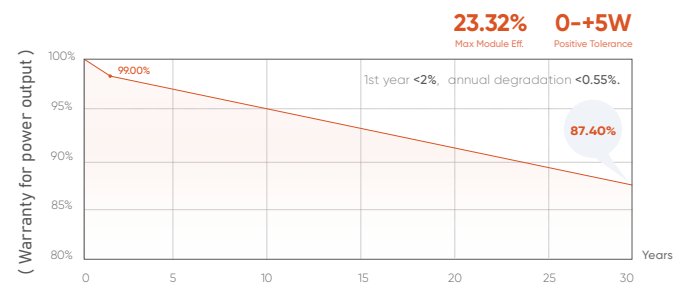
Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV.

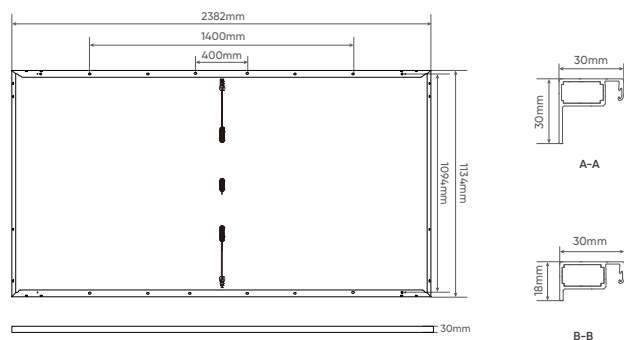
Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).
IEC62716 (Ammonia), IEC60068-2-68(Sand).
ISO 9001:2015/quality management system.
ISO 14001:2015/environmental management system.
ISO 45001:2018/occupation health safety management system.
ISO 50001:2011/energy management system.
IEC TS 62941-2016/PV industry quality management system.

Quality Guarantee



Design(mm)



Solar Cells	TOPCon 182 x 210mm
No. of Cells	132 (6x22)
Dimensions	2382 x 1134 x 30mm
Weight	29.5kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Aluminum Alloy
Junction Box	IP68
Cable	4mm ² , N 1400mm/P 1400mm for Horizontal installation 4mm ² , N 300mm/P 300mm for Vertical installation
Connectors	MC4 Compatible
Maximum System Voltage	1500V
Packaging	36pcs/box, 720pcs/40'HQ

Temperature Characteristics

NMOT (Nominal Module Operating Temperature)	41°C(±3°C)
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Pmax	-0.300%/°C

Maximum Rating

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400Pa/5400Pa
Fuse Current	25A

Electrical Parameters (STC*)

Module Type: MS640M-66H	620	625	630	635	640
Maximum Power (Pmax/W)	620	625	630	635	640
Optimum Operating Voltage (Vmp/V)	49.55	49.75	49.95	50.15	50.35
Optimum Operating Current (Imp/A)	15.93	16.00	16.05	16.10	16.15
Open Circuit Voltage (Voc/V)	41.06	41.26	41.46	41.66	41.86
Short Circuit Current (Isc/A)	15.10	15.15	15.20	15.25	15.30
Module Efficiency (%)	22.95	23.14	23.32	23.50	23.68

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

Electrical Parameters (NMOT**)

Maximum Power (Pmax/W)	472	476	480	484	488
Optimum Operating Voltage (Vmp/V)	47.01	47.21	47.41	47.61	47.81
Optimum Operating Current (Imp/A)	12.84	12.88	12.93	12.98	13.03
Open Circuit Voltage (Voc/V)	38.60	38.80	39.00	39.20	39.40
Short Circuit Current (Isc/A)	12.23	12.27	12.31	12.35	12.39

**NMOT: Under Nominal Module Operating Temperature (NMOT), irradiance of 800W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s.

Characteristics (MT5N-66H-640W)

