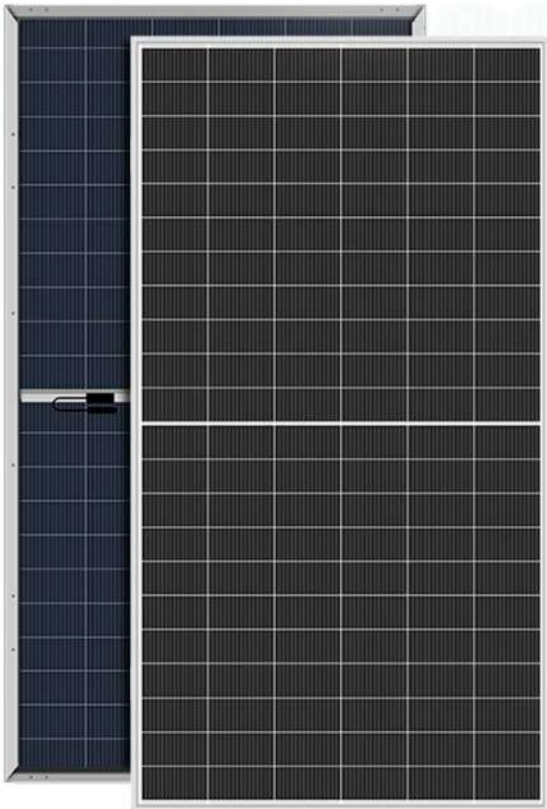




N-Type

GSM-MN12/132HBD 700-730W

**N-Type
Bifacial Dual Glass
Mono Silicon PV Module**

730W

Maximum Power
Output

23.50%

Maximum Module
Efficiency

0~+5W

Power Output
Guarantee



N-type Topcon technology for lower LCOE

The lower temperature coefficient and better low irradiance performance of Topcon technology can effectively reduce LCOE.



Double-sided power generation, higher yield

The dual-glass module has a double-sided ratio of up to 80% and a power generation gain of 7%-25% on the back side.



Ultra-low Degradation, longer warranty, higher output

- First-year degradation 1% and annual degradation at 0.4%
- Up to 25 years product warranty and 30 years power warranty



Universal solution for residential and C&I application

- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems
- Perfect size and low weight for handling and installation
- Most valuable solution on low load capacity rooftops (weight similar to backsheet version)



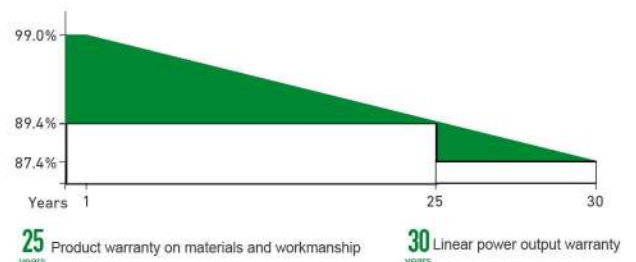
PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Delivers Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules

Linear Performance Warranty



First-year degradation **1%** and annual degradation at **0.4%**

Electrical Specification (STC*)

Maximum Power	P _{max} (W)	700	705	710	715	720	725	730
Maximum Power Voltage	V _{mp} (V)	40.35	40.52	40.69	40.86	41.03	41.20	41.37
Maximum Power Current	I _{mp} (A)	17.35	17.40	17.45	17.50	17.55	17.60	17.65
Open Circuit Voltage	V _{oc} (V)	48.60	48.77	48.94	49.11	49.28	49.45	49.62
Short Circuit Current	I _{sc} (A)	18.35	18.40	18.45	18.50	18.55	18.60	18.65
Module Efficiency	(%)	22.5	22.7	22.9	23.0	23.2	23.3	23.5
Power Output Tolerance	(W)	0~+5						

* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

Maximum Power	P _{max} (W)	526	530	534	538	541	545	549
Maximum Power Voltage	V _{mp} (V)	37.55	37.73	37.90	38.08	38.18	38.35	38.52
Maximum Power Current	I _{mp} (A)	14.01	14.05	14.09	14.13	14.17	14.21	14.25
Open Circuit Voltage	V _{oc} (V)	46.17	46.33	46.49	46.65	46.82	46.98	47.14
Short Circuit Current	I _{sc} (A)	14.82	14.86	14.90	14.94	14.98	15.02	15.06

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

Number of Cells	132Cells [6x22]
Dimensions of Module L*W*H (mm)	2384x1303x33mm
Weight (kg)	37.9 kg
Front Side Glass	2.0mm AR coated heat strengthened glass
Back Side Glass	2.0mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable	4.0mm ²
Number of diodes	+400mm, -200mm or -1400mm, length can be customized
Wind/ Snow Load	2400Pa/5400Pa
Connector	MC Compatible

* For more details please check the installation manual

Temperature Ratings

Nominal Operating Cell Temperature [NOCT]	45±2°C
Temperature Coefficient of I _{sc}	+0.040%/°C
Temperature Coefficient of V _{oc}	-0.240%/°C
Temperature Coefficient of P _{MAX}	-0.280%/°C

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	35A

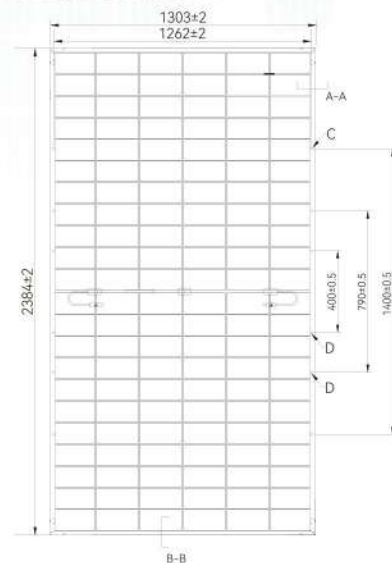
Packaging Configuration

Module per box	33 pieces
Module per 40' container	594 pieces

Optional

Connector	MC Original
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Module Dimension



Back View

