TONGWEI

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TNC 2.0

N-type Half-cell Bifacial Module (66)

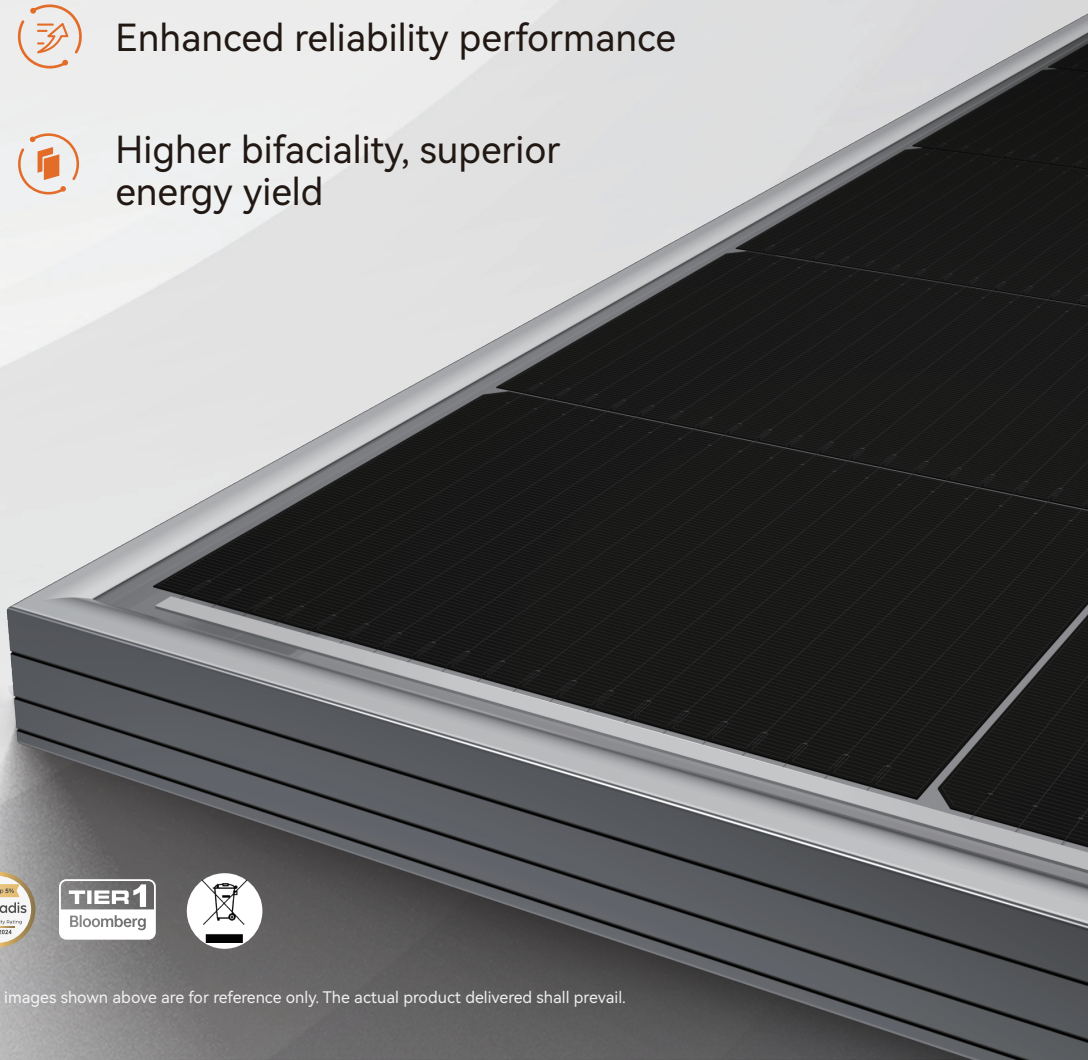
TWMNH-66HD

- Higher power generation,lower LCOE
- Higher power output, higher conversion efficiency
- Enhanced reliability performance
- Higher bifaciality, superior energy yield

635-655W

C&I Rooftops

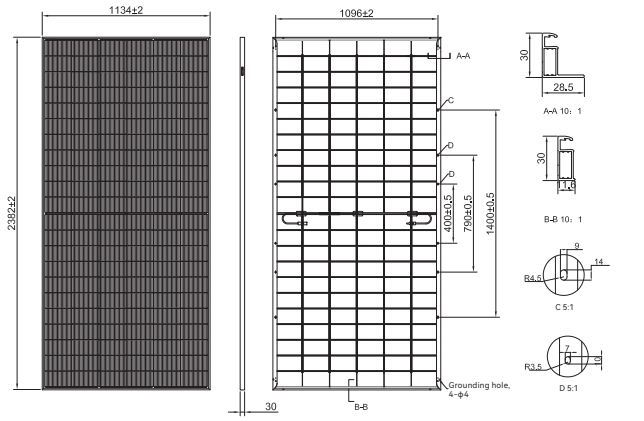
Utility-scale PV Plants



* The images shown above are for reference only. The actual product delivered shall prevail.

TWMNH N-type Half-cell Bifacial module (66)

Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-66HDXXX					
Maximum Power: Pmax [W]	635	640	645	650	655
Open Circuit Voltage: Voc [V]	49.60	49.75	49.85	50.00	50.15
Short Circuit Current: Isc [A]	16.26	16.33	16.39	16.45	16.52
Voltage at Maximum Power: Vmp [V]	41.24	41.38	41.51	41.65	41.78
Current at Maximum Power: Imp [A]	15.40	15.47	15.54	15.61	15.68
Module Efficiency: η [%]	23.5	23.7	23.9	24.1	24.2

* STC: Irradiance 1000W/m², Cell temperature 25℃, AM=1.5, Power measurement tolerance: ±3%.
The above electrical parameters are for module grading only, not for individual modules.

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	701.1	706.8	712.3	717.6	723.2
Open Circuit Voltage: Voc [V]	49.60	49.75	49.85	50.00	50.15
Short Circuit Current: Isc [A]	17.95	18.03	18.09	18.16	18.24
Voltage at Maximum Power: Vmp [V]	41.24	41.38	41.51	41.65	41.78
Current at Maximum Power: Imp [A]	17.00	17.08	17.16	17.23	17.31

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25℃, AM=1.5,
Power measurement tolerance:±3%.
The above electrical parameters are for module grading only, not for individual modules.

Electrical characteristics with different rear side power gain

15%	Maximum Power: Pmax[W]	730	736	741	747	753
	Module Efficiency: η [%]	27.0	27.2	27.4	27.7	27.9

Temperature Rating

Temperature Coefficient of Pmax	-0.28%/℃
Temperature Coefficient of Voc	-0.24%/℃
Temperature Coefficient of Isc	+0.046%/℃

* Due to differences in test methods and equipment, actual measured values may deviate slightly from the above nominal values.

Operating Parameters

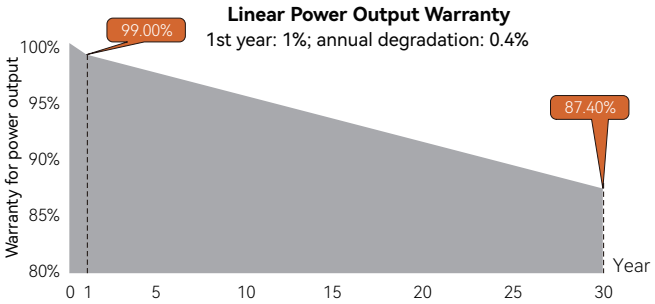
Operating Temperature*	[T_{98}]≤70℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%

*The module operating temperature can reach up to 85℃ for short term.

Mechanical Parameters

Cell Type	TNC
Cell Orientation	132 [6×22]
Dimension	2382±2×1134±2×30mm
Weight	32.2kg
Front Glass	2.0 mm AR coating semi tempered glass
Rear Glass	2.0 mm semi tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm²
Cable Length	+400 mm, -200 mm or ±1,400 mm; length can be customized
Maximum Static Test Load	5,400 Pa (Positive) / 2,400 Pa (Negative)
Packaging (Per pallet)	36 pcs
Packaging	720 pcs per 40'HC

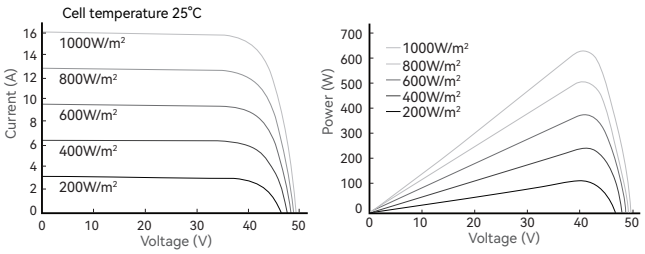
Warranty



12 12-Year Material and Workmanship Warranty

30 30-Year Linear Power Output Warranty

Curve



Certifications

Quality Management System and Product Certification

ISO 9001: 2015 / Quality Management System
ISO 14001: 2015 / Environmental Management System
ISO 45001: 2018 / Occupational Health and Safety Management System
ISO 50001: 2018 / Energy Management System
IEC 62941: 2019 / Quality System for PV Module Manufacturing
IEC 61215 (2021) / IEC 61730 (2023), IEC TS 62804,
IEC 61701, IEC 62716, IEC 60068-2-68

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