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TNC 3.0

N-type Bifacial Module (66)

TWMNH-66QD

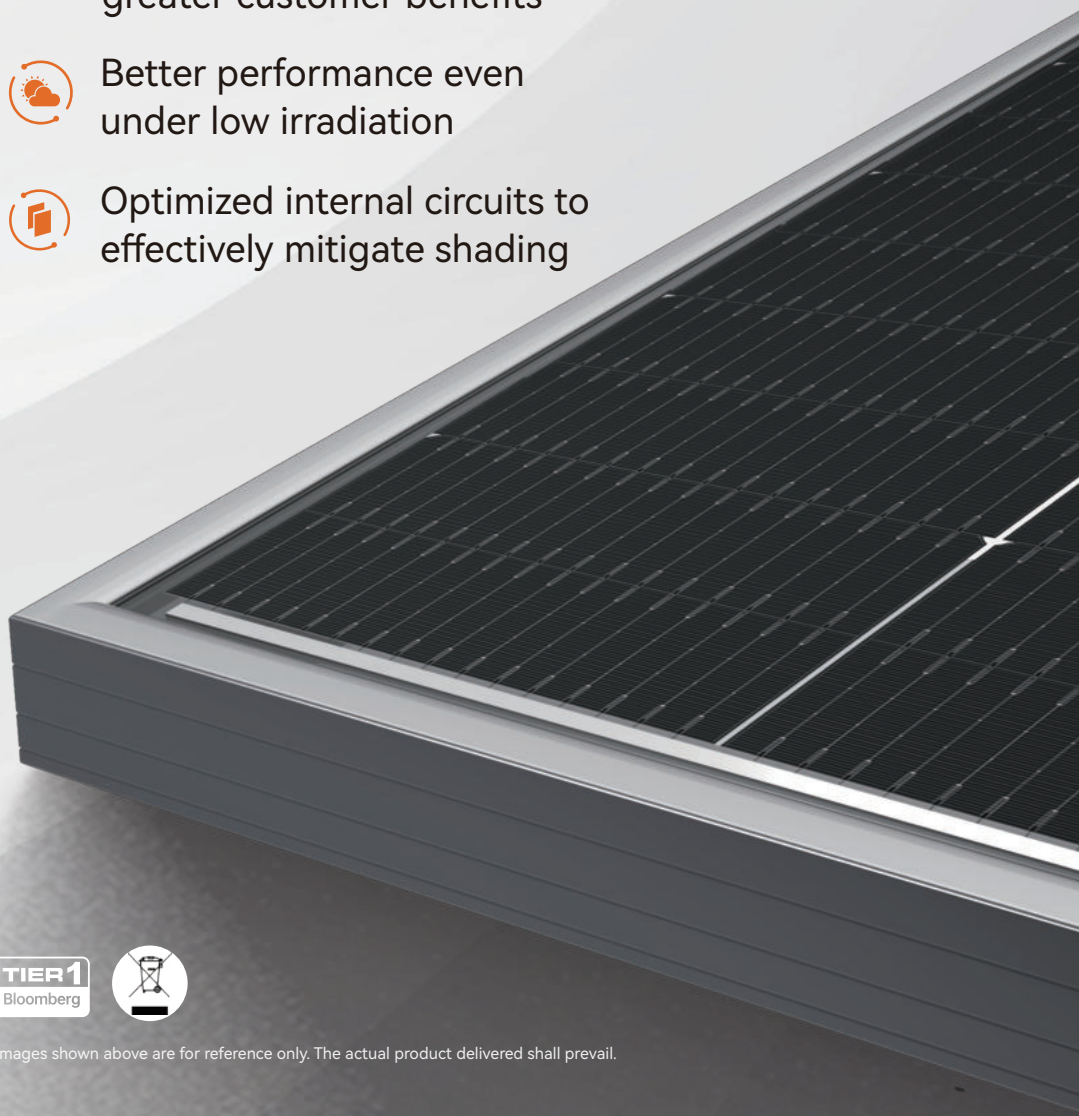


- Lower inner losses, superior power & efficiency
- High bifaciality, greater customer benefits
- Better performance even under low irradiation
- Optimized internal circuits to effectively mitigate shading

645-670W

C&I Rooftops

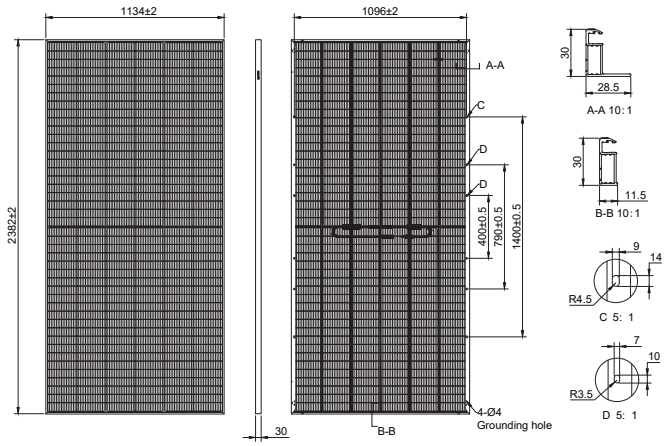
Utility-scale PV Plants



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

TWMNH N-type Bifacial module (66)

Drawings (Unit: mm)



Mechanical Parameters

Cell Type	TNC
Cell Orientation	264 [6×44]
Dimension	2382±2×1134±2×30mm
Weight	32.3 kg
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 (Including Connector)	+400 mm, -600 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

Electrical Characteristics (STC)

Module type: TWMNH-66QDXXX						
Maximum Power: Pmax [W]	645	650	655	660	665	670
Open Circuit Voltage: Voc [V]	50.06	50.19	50.36	50.52	50.67	50.84
Short Circuit Current: Isc [A]	16.28	16.36	16.43	16.50	16.57	16.64
Voltage at Maximum Power: Vmp [V]	41.65	41.81	41.95	42.10	42.25	42.42
Current at Maximum Power: Imp [A]	15.49	15.55	15.62	15.68	15.74	15.80
Module Efficiency: η [%]	23.9	24.1	24.2	24.4	24.6	24.8

* 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]	715	721	726	732	737	743
Open Circuit Voltage: Voc [V]	50.06	50.19	50.36	50.52	50.67	50.84
Short Circuit Current: Isc [A]	18.04	18.13	18.21	18.29	18.36	18.44
Voltage at Maximum Power: Vmp [V]	41.65	41.81	41.95	42.10	42.25	42.42
Current at Maximum Power: Imp [A]	17.17	17.25	17.31	17.39	17.45	17.52

* 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]	741	747	753	759	764	770
	Module Efficiency: η [%]	27.4	27.7	27.9	28.1	28.3	28.5

Temperature Rating

Temperature Coefficient of Pmax	-0.26%/℃
Temperature Coefficient of Voc	-0.22%/℃
Temperature Coefficient of Isc	+0.046%/℃

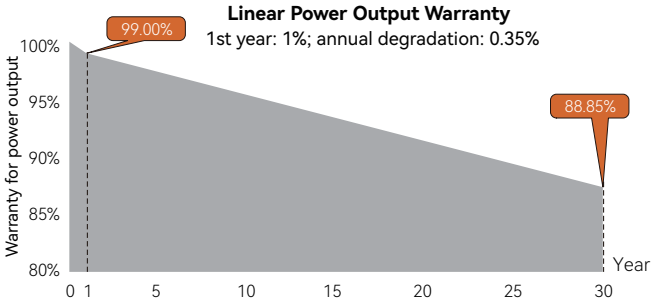
* Due to differences in test methods and equipment, actual measured values may deviate slightly from the above nominal values.

Operating Parameters

Operating Temperature*	[T_{98}]≤70℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	85±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	85±5%

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

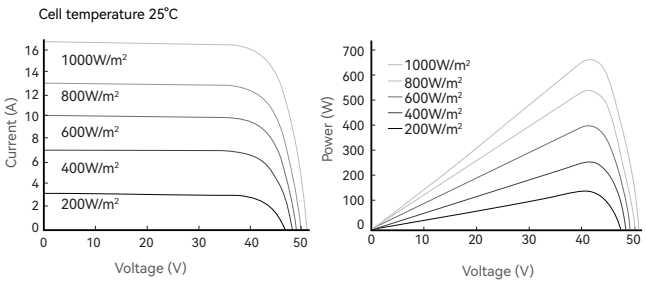
Warranty



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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Email: sales@tongwei.com **Website:** https://en.tongwei.cn/ **Add:** No.588, Middle Section Tianfu Avenue, High-Tech Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone **Tel:** +86-028-60707985

Statement: With technological process and product update, there maybe deviation between the technical parameters of Tongwei's module products and the technical parameters contained in the specification, and Tongwei has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei. (Ver.20261116)