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TW SOLAR

TNC 2.0

N-type Half-cell Bifacial Module (66)

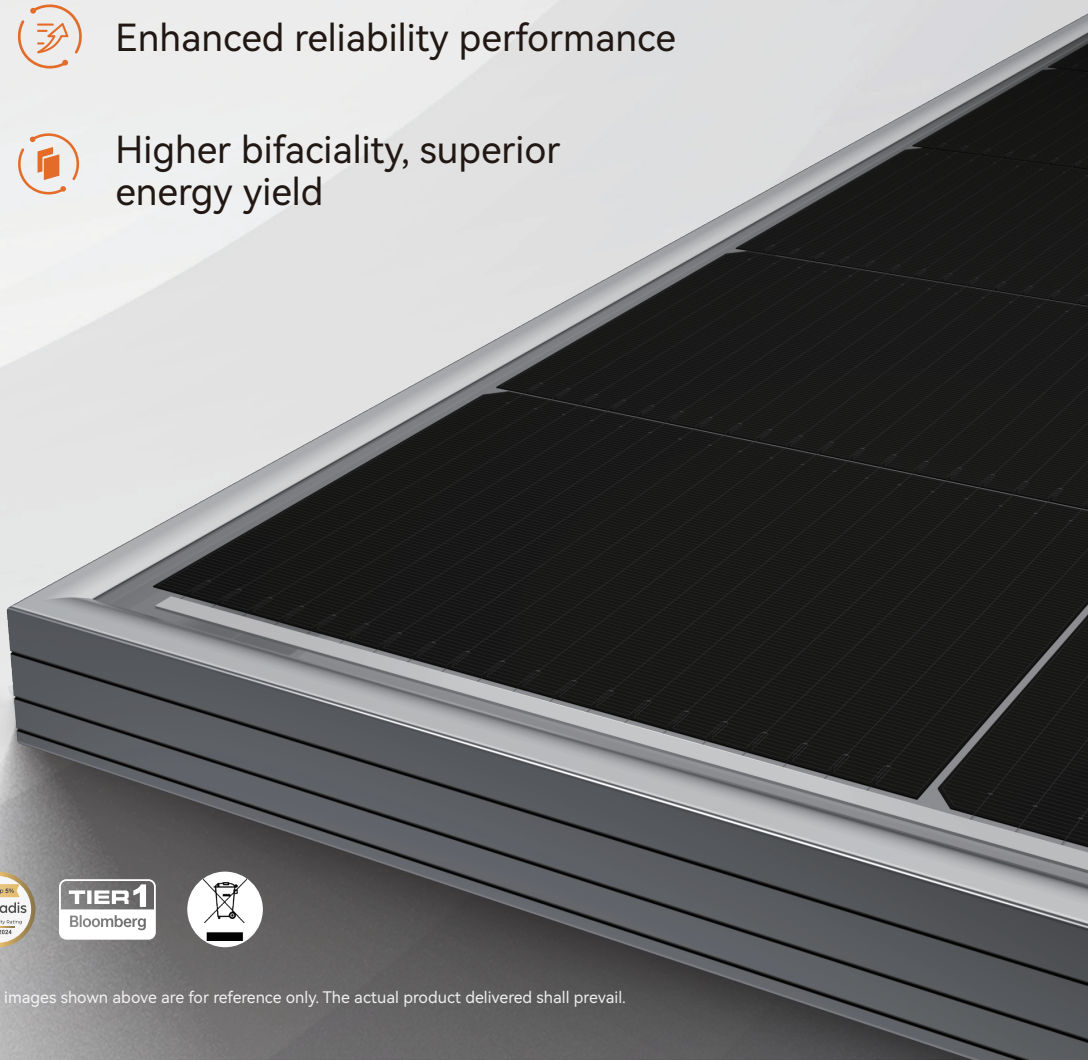
TWMNH-66HD

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

620-640W

C&I Rooftops

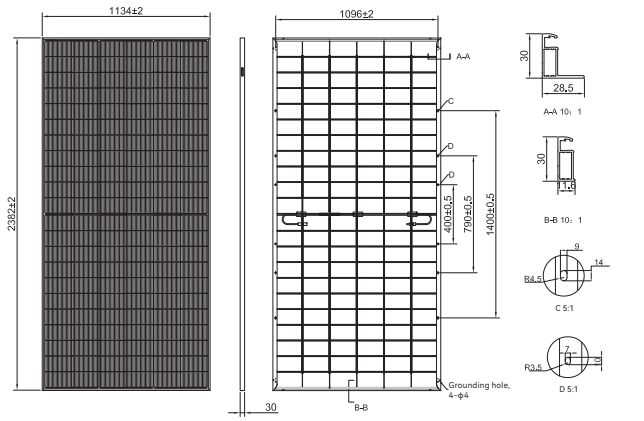
Utility-scale PV Plants



* 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]	620	625	630	635	640
Open Circuit Voltage: Voc [V]	49.10	49.30	49.50	49.60	49.75
Short Circuit Current: Isc [A]	16.06	16.12	16.18	16.26	16.33
Voltage at Maximum Power: Vmp [V]	40.82	40.96	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	15.19	15.26	15.33	15.40	15.47
Module Efficiency: η [%]	23.0	23.1	23.3	23.5	23.7

* STC: Irradiance 1000W/m², Cell temperature 25℃, AM=1.5, Power measurement tolerance: ±3%

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	684.6	690.2	695.4	701.1	706.8
Open Circuit Voltage: Voc [V]	49.10	49.30	49.50	49.60	49.75
Short Circuit Current: Isc [A]	17.73	17.80	17.86	17.95	18.03
Voltage at Maximum Power: Vmp [V]	40.82	40.96	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	16.77	16.85	16.92	17.00	17.08

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25℃, AM=1.5
Power measurement tolerance:±3%

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	651	656	661	666	672
	Module Efficiency: η [%]	24.1	24.3	24.5	24.7	24.9
15%	Maximum Power: Pmax[W]	713	718	724	730	736
	Module Efficiency: η [%]	26.4	26.6	26.8	27.0	27.2
25%	Maximum Power: Pmax[W]	775	781	787	793	800
	Module Efficiency: η [%]	28.7	28.9	29.1	29.4	29.6

Temperature Rating

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

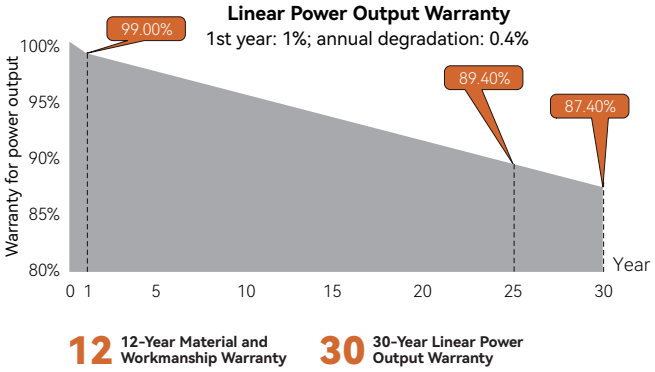
Operating Parameters

Operating Temperature	-40℃~+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%

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 (front) / 2,400 Pa (rear)
Packaging (Per pallet)	36 pcs
Packaging	720 pcs per 40'HC

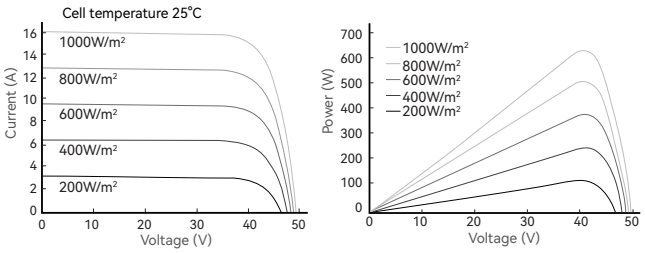
Warranty



12 12-Year Material and Workmanship Warranty

30 30-Year Linear Power Output Warranty

Curve



Certifications

Quality Management System and Product Certification

ISO9001:2015/Quality Management System
ISO14001:2015/Environmental Management System
ISO45001:2018/Occupational Health and Safety Management System
ISO50001:2018 / Energy Management System
EC62941:2019 / 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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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 Solar 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 Solar. (Ver.20250801)