

TNC^{2.0}

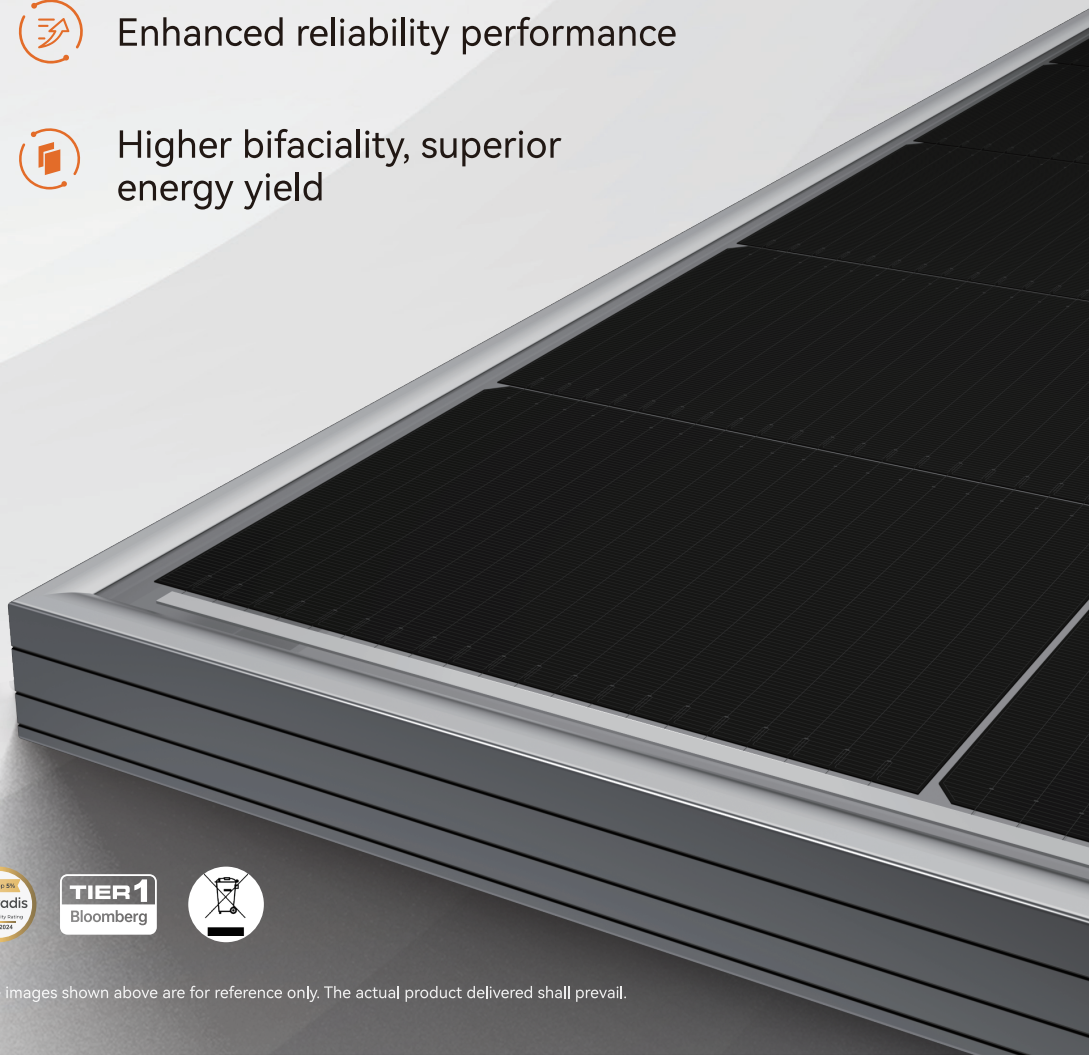
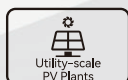
N-type Half-cell Bifacial Module (66)

TWMNH-66HD

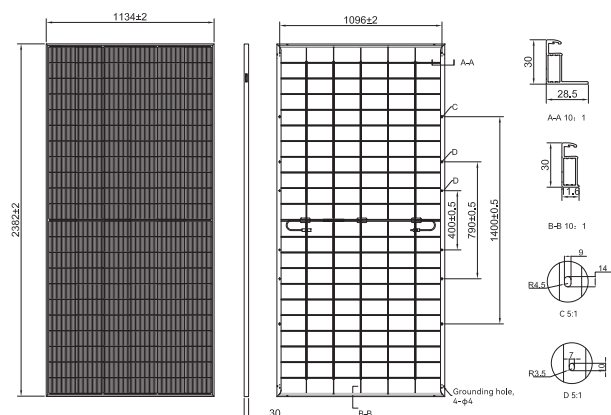


-  Higher power generation, lower LCOE
-  Higher power output, higher conversion efficiency
-  Enhanced reliability performance
-  Higher bifaciality, superior energy yield

620-640W



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°C, 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°C, 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%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

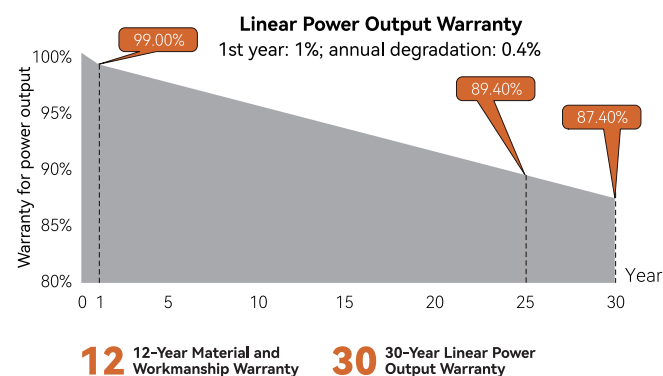
Operating Parameters

Operating Temperature	-40°C~+70°C
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%

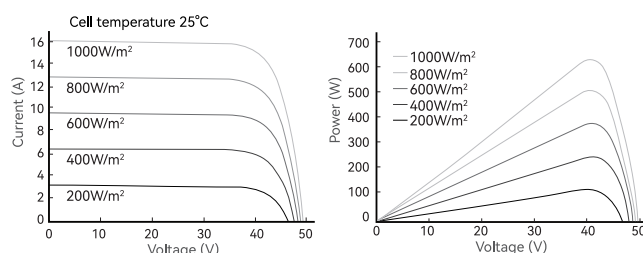
Mechanical Parameters

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	4.0mm ²
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



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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