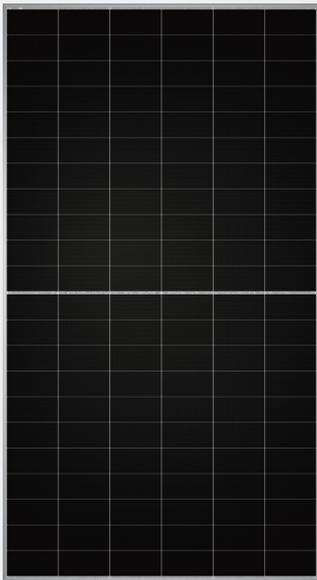


TNC 2.0

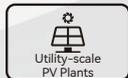
N-type Half-cell Bifacial Module (66)

TWMNF-66HD

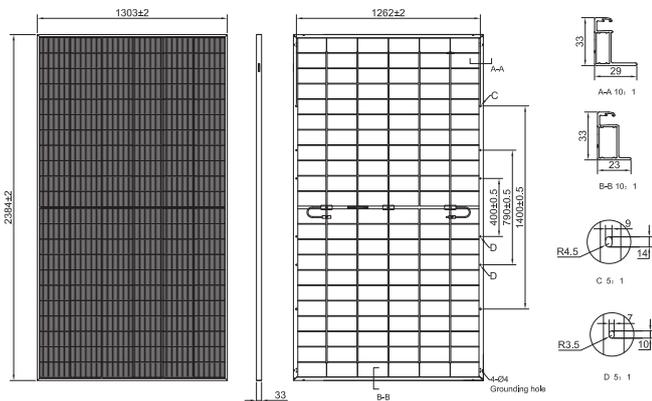


-  Higher power generation, lower LCOE
-  Higher power output, higher conversion efficiency
-  Enhanced reliability performance
-  Higher bifaciality, superior energy yield

730-750W



Drawings (Unit: mm)



Mechanical Parameters

Cell Type	TNC
Cell Orientation	132 [6×22]
Dimension	2384±2×1303±2×33mm
Weight	37.3 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	4.0 mm 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)	33 pcs
Packaging	594 pcs per 40'HC

Electrical Characteristics (STC)

Module type: TWMNF-66HDXXX

Maximum Power: Pmax [W]	730	735	740	745	750
Open Circuit Voltage: Voc [V]	49.55	49.65	49.80	49.95	50.10
Short Circuit Current: Isc [A]	18.68	18.75	18.81	18.87	18.93
Voltage at Maximum Power: Vmp [V]	41.37	41.53	41.69	41.86	42.02
Current at Maximum Power: Imp [A]	17.65	17.70	17.75	17.80	17.85
Module Efficiency: η [%]	23.5	23.7	23.8	24.0	24.1

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

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	805.9	811.5	817.1	822.5	828.2
Open Circuit Voltage: Voc [V]	49.55	49.65	49.80	49.95	50.10
Short Circuit Current: Isc [A]	20.62	20.70	20.77	20.83	20.90
Voltage at Maximum Power: Vmp [V]	41.37	41.53	41.69	41.86	42.02
Current at Maximum Power: Imp [A]	19.48	19.54	19.60	19.65	19.71

* 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]	766	771	777	782	787
	Module Efficiency: η [%]	24.7	24.8	25.0	25.2	25.3
15%	Maximum Power: Pmax[W]	839	845	851	856	862
	Module Efficiency: η [%]	27.0	27.2	27.4	27.6	27.7
25%	Maximum Power: Pmax[W]	912	918	925	931	937
	Module Efficiency: η [%]	29.4	29.6	29.8	30.0	30.2

Temperature Rating

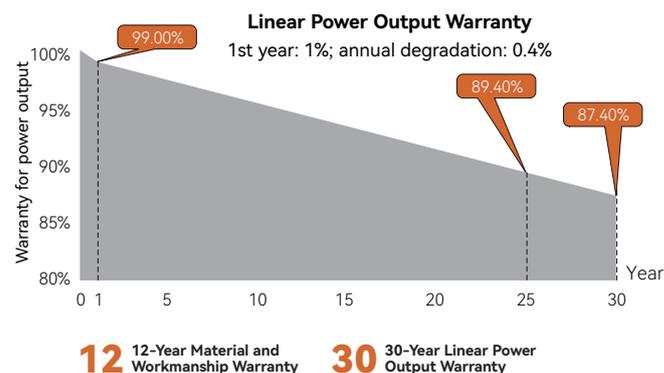
Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

Operating Parameters

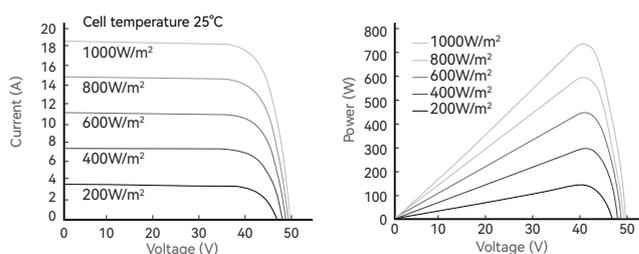
Operating Temperature*	[T ₉₈] _s ≤70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%

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

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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