

TNC 2.0

N-type Half-cell Bifacial Module (66)

TWMNF-66HD



Higher power generation, lower LCOE



Higher power output, higher conversion efficiency

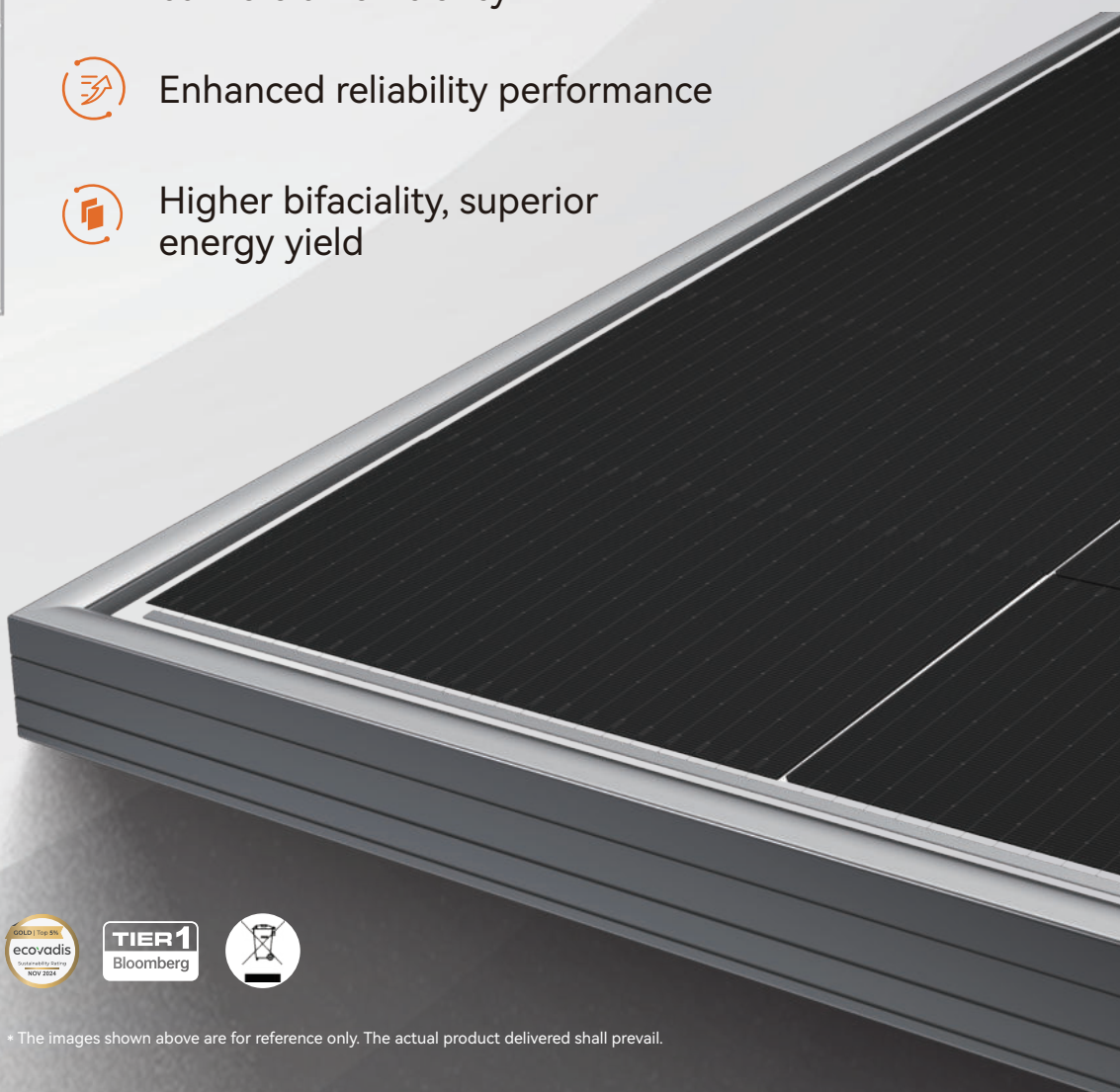
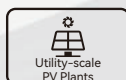


Enhanced reliability performance

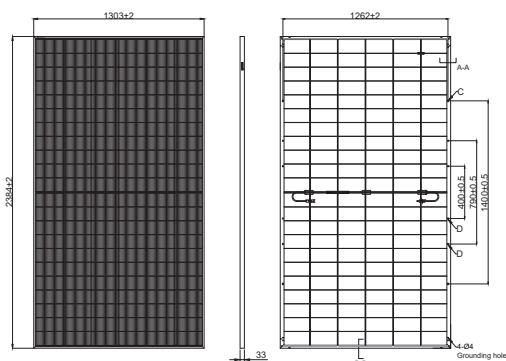


Higher bifaciality, superior energy yield

700-740W



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type:	TWMNF-66HD700	TWMNF-66HD705	TWMNF-66HD710	TWMNF-66HD715	TWMNF-66HD720
Maximum Power: Pmax [W]	700	705	710	715	720
Open Circuit Voltage: Voc [V]	48.60	48.77	48.94	49.11	49.28
Short Circuit Current: Isc [A]	18.35	18.40	18.45	18.50	18.55
Voltage at Maximum Power: Vmp [V]	40.35	40.52	40.69	40.86	41.03
Current at Maximum Power: Imp [A]	17.35	17.40	17.45	17.50	17.55
Module Efficiency: η [%]	22.53	22.70	22.86	23.02	23.18

* STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	772.7	778.4	783.7	789.4	794.8
Open Circuit Voltage: Voc [V]	48.60	48.77	48.94	49.11	49.28
Short Circuit Current: Isc [A]	20.26	20.31	20.37	20.42	20.48
Voltage at Maximum Power: Vmp [V]	40.35	40.52	40.69	40.86	41.03
Current at Maximum Power: Imp [A]	19.15	19.21	19.26	19.32	19.37

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BSI)

Short Circuit Current: Isc [A]	22.59	22.65	22.71	22.77	22.84
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* BSI: Front side irradiance 1000W/m², Rear side irradiance 300W/m², Cell Temperature=25°C, AM=1.5, Isc measurement tolerance: ±5%

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	735	740	745	750	756
	Module Efficiency: η [%]	23.66	23.82	23.98	24.14	24.34
15%	Maximum Power: Pmax[W]	805	810	816	822	828
	Module Efficiency: η [%]	25.91	26.08	26.27	26.46	26.66
25%	Maximum Power: Pmax[W]	875	881	887	893	900
	Module Efficiency: η [%]	28.17	28.36	28.55	28.75	28.97

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

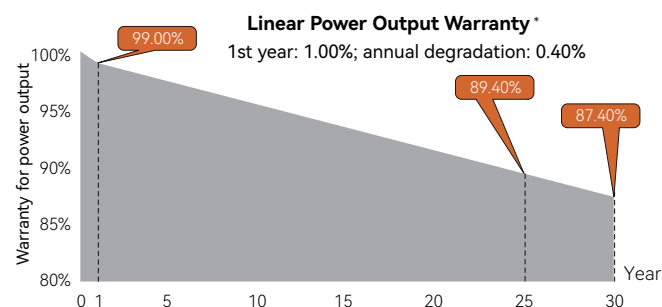
Operating Temperature*	[T ₉₅] ≤ 70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%
Fire Class Rating	Class C

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

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
Connector	TW-PVCON-01, TW-PVCON-02 (Tongwei Solar) PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR (Staubli) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy (Staubli) PV-ZH202B (Zhejiang Zhonghuan Sunter)
Maximum Static Test Load	5400Pa (positive) / 2400Pa (negative)
Packaging (Per pallet)	33 pcs
Packaging	594 pcs per 40'HC

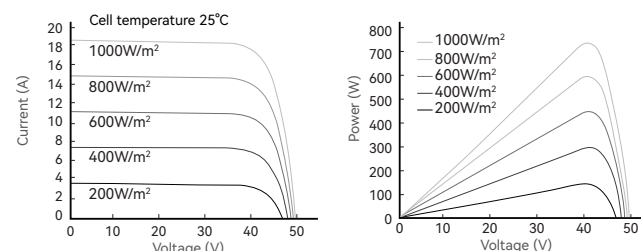
Warranty



12 12-Year Material and Workmanship Warranty **30** 30-Year Linear Power Output Warranty

*The warranty is applicable under STC.

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Certifications

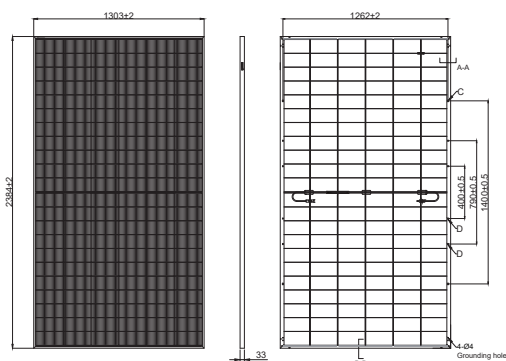
Quality Management System and Product Certification

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



Scan the code for more information

Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type:	TWMNF-66HD725	TWMNF-66HD730	TWMNF-66HD735	TWMNF-66HD740
Maximum Power: Pmax [W]	725	730	735	740
Open Circuit Voltage: Voc [V]	49.45	49.55	49.65	49.80
Short Circuit Current: Isc [A]	18.60	18.68	18.75	18.81
Voltage at Maximum Power: Vmp [V]	41.20	41.37	41.53	41.69
Current at Maximum Power: Imp [A]	17.60	17.65	17.70	17.75
Module Efficiency: η [%]	23.34	23.50	23.66	23.82

* STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	800.5	805.9	811.5	817.1
Open Circuit Voltage: Voc [V]	49.45	49.55	49.65	49.80
Short Circuit Current: Isc [A]	20.53	20.62	20.70	20.77
Voltage at Maximum Power: Vmp [V]	41.20	41.37	41.53	41.69
Current at Maximum Power: Imp [A]	19.43	19.48	19.54	19.60

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BSI)

Short Circuit Current: Isc [A]	22.90	23.00	23.08	23.16
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* BSI: Front side irradiance 1000W/m², Rear side irradiance 300W/m², Cell Temperature=25°C, AM=1.5, Isc measurement tolerance: ±5%

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	761	766	771	777
	Module Efficiency: η [%]	24.50	24.66	24.82	25.01
15%	Maximum Power: Pmax[W]	833	839	845	851
	Module Efficiency: η [%]	26.82	27.01	27.20	27.40
25%	Maximum Power: Pmax[W]	906	912	918	925
	Module Efficiency: η [%]	29.17	29.36	29.55	29.78

Temperature Rating

Temperature Coefficient of Pmax	-0.28%/°C
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Operating Parameters

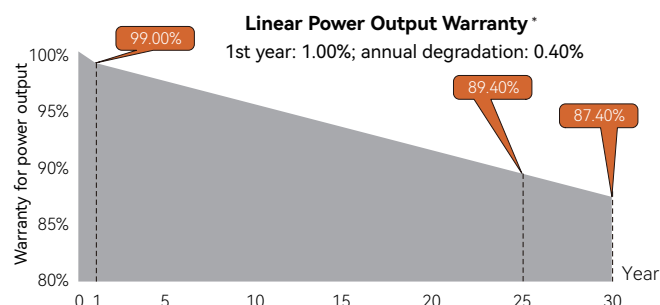
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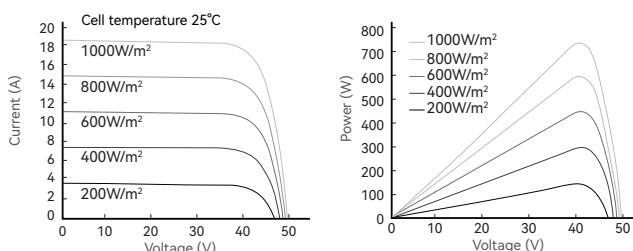
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