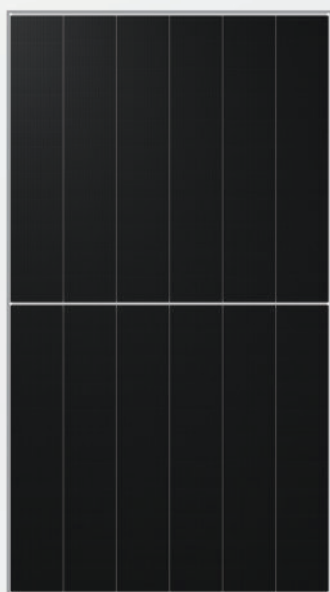


TNC 2.0

N-type Half-cell Bifacial Module (66)

TWMNF-66HD



Higher power generation, lower LCOE



Higher power output, higher conversion efficiency



Enhanced reliability performance

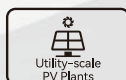


Higher bifaciality, superior energy yield

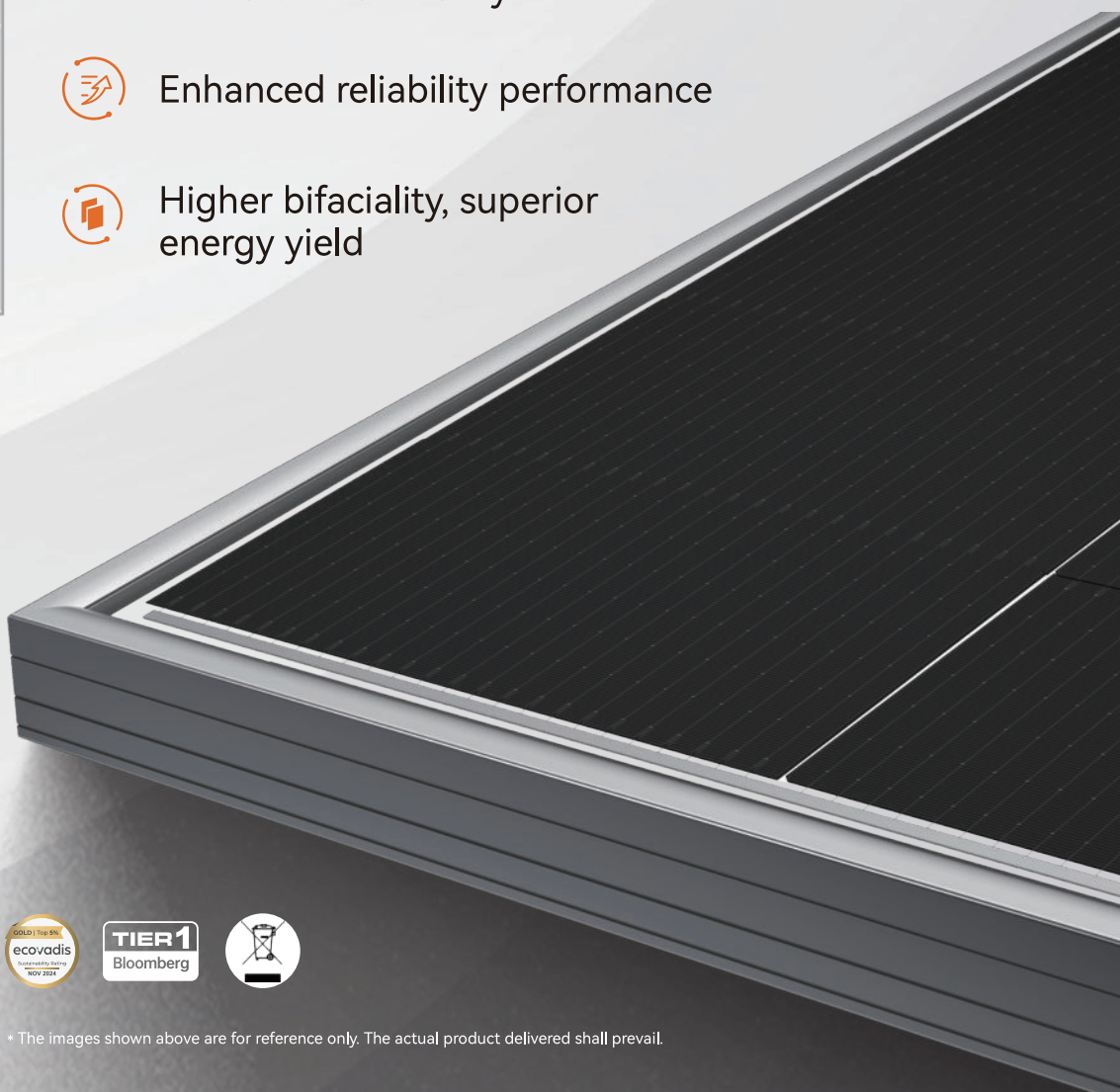
745-755W



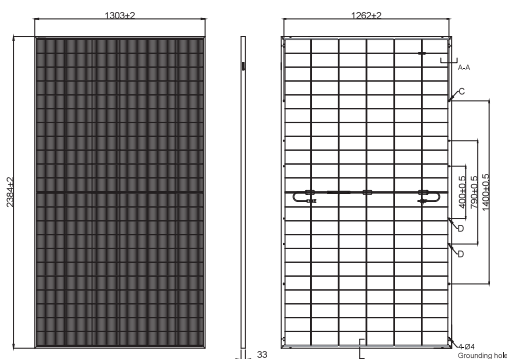
C&I Rooftops



Utility-scale
PV Plants



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type:	TWMNF-66 HD745	TWMNF-66 HD750	TWMNF-66 HD755
Maximum Power: P _{max} [W]	745	750	755
Open Circuit Voltage: V _{oc} [V]	49.95	50.10	50.25
Short Circuit Current: I _{sc} [A]	18.87	18.93	18.99
Voltage at Maximum Power: V _{mp} [V]	41.86	42.02	42.18
Current at Maximum Power: I _{mp} [A]	17.80	17.85	17.90
Module Efficiency: η [%]	23.98	24.14	24.31

* STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5, Power measurement tolerance: ±3%, V_{oc} measurement tolerance: ±5%, I_{sc} measurement tolerance: ±5%

Electrical Characteristics (BNPI)

Maximum Power: P _{max} [W]	822.5	828.2	833.5
Open Circuit Voltage: V _{oc} [V]	49.95	50.10	50.25
Short Circuit Current: I _{sc} [A]	20.83	20.90	20.96
Voltage at Maximum Power: V _{mp} [V]	41.86	42.02	42.18
Current at Maximum Power: I _{mp} [A]	19.65	19.71	19.76

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance: ±3%, V_{oc} measurement tolerance: ±5%, I_{sc} measurement tolerance: ±5%

Electrical Characteristics (BSI)

Short Circuit Current: I _{sc} [A]	23.23	23.30	23.38
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* BSI: Front side irradiance 1000W/m², Rear side irradiance 300W/m², Cell Temperature=25°C, AM=1.5, I_{sc} measurement tolerance: ±5%

Electrical characteristics with different rear side power gain

5%	Maximum Power: P _{max} [W]	782	787	792
	Module Efficiency: η [%]	25.17	25.34	25.50
15%	Maximum Power: P _{max} [W]	856	862	868
	Module Efficiency: η [%]	27.56	27.75	27.94
25%	Maximum Power: P _{max} [W]	931	937	943
	Module Efficiency: η [%]	29.97	30.16	30.36

Temperature Rating

Temperature Coefficient of P _{max}	-0.28%/°C
Temperature Coefficient of V _{oc}	-0.24%/°C
Temperature Coefficient of I _{sc}	+0.046%/°C

Operating Parameters

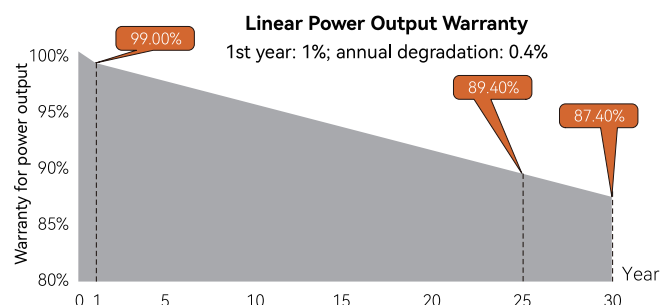
Operating Temperature*	[T _g] ≤70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of P _{max}	80±5%
Bifaciality coefficient of V _{oc}	98±5%
Bifaciality coefficient of I _{sc}	80±5%
Fire Class Rating	Class C

*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

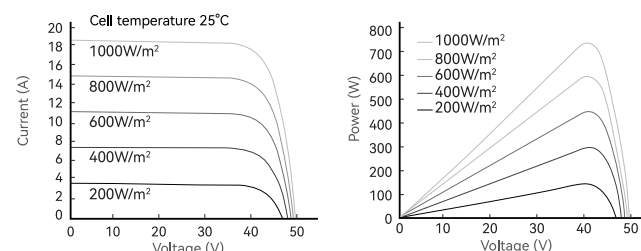
Warranty



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

*The warranty is applicable under STC.

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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