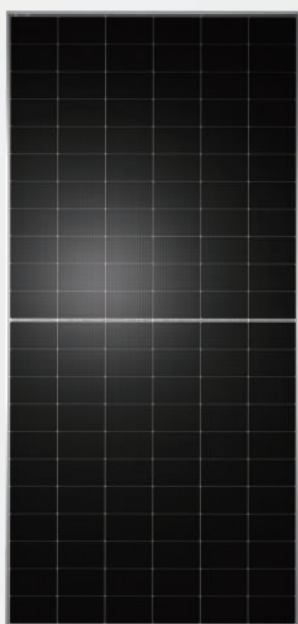


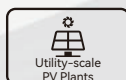
TNC

N-type Half-cell Bifacial Module (66)

TWMNH-66HD



620-640W



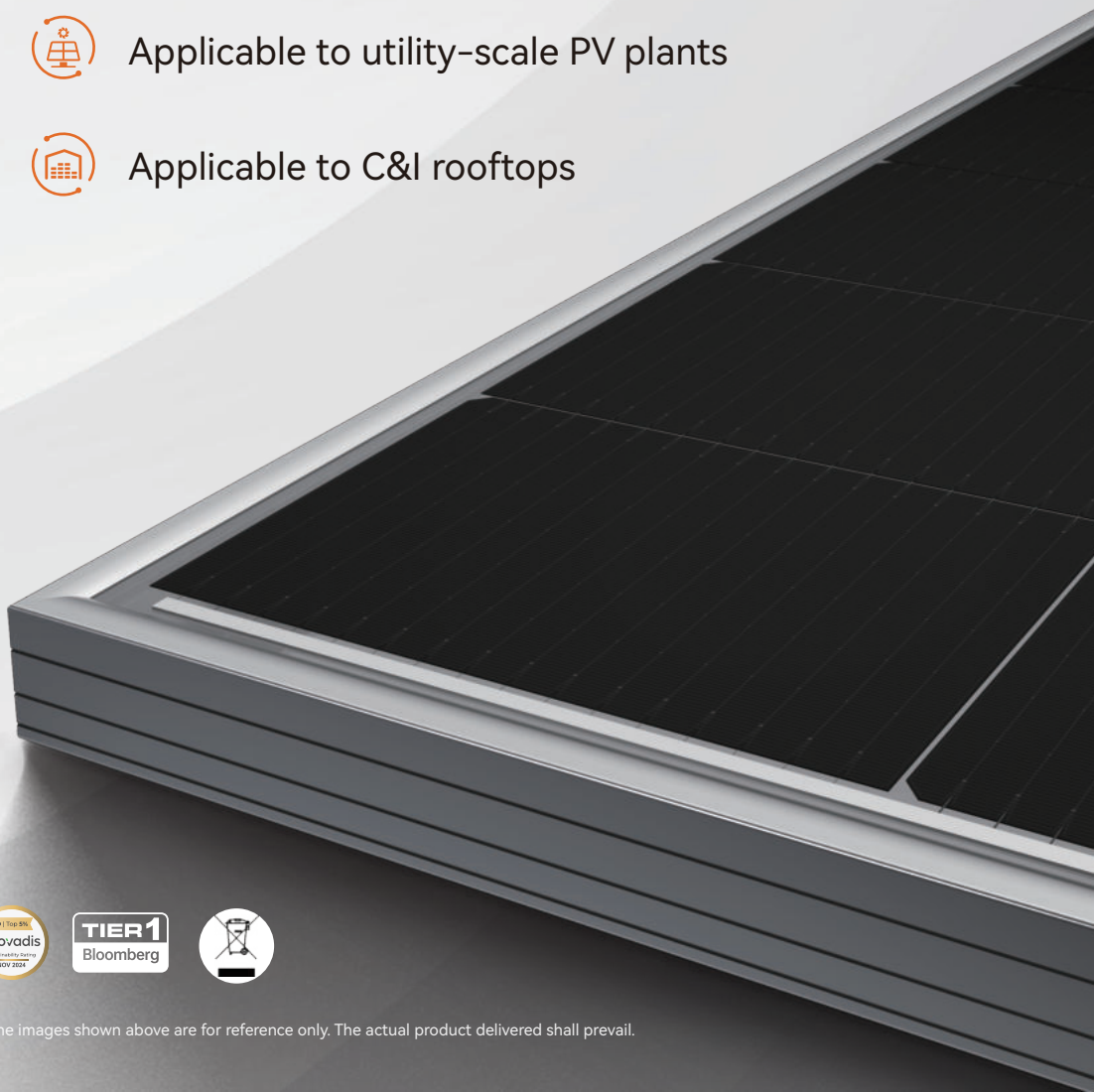
Higher power generation, lower LCOE



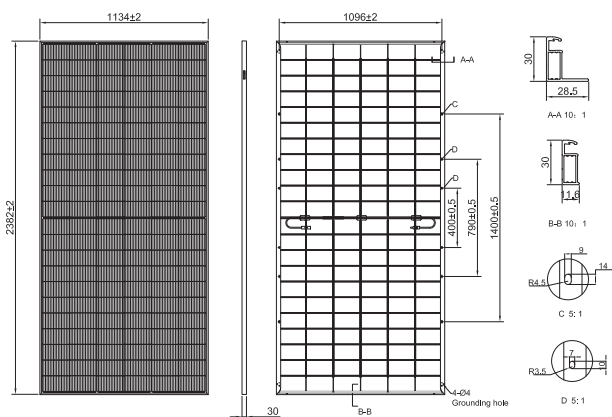
Applicable to utility-scale PV plants



Applicable to C&I rooftops



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-66HDXXX

Maximum Power: P _{max} [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: V _{mp} [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 [%]	22.95	23.14	23.32	23.51	23.69

* STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5.
Power measurement tolerance: ±3%, Voc&Isc measurement tolerance: ±5%.
The above electrical parameters are for module grading only, not for individual modules.

Electrical Characteristics (BNPI)

Maximum Power: P _{max} [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: V _{mp} [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%, Voc&Isc measurement tolerance: ±5%.
The above electrical parameters are for module grading only, not for individual modules.

Electrical Characteristics (BSI)

Short Circuit Current: Isc [A]	19.77	19.84	19.92	20.02	20.10
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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

15%	Maximum Power: P _{max} [W]	713	718	724	730	736
	Module Efficiency: η [%]	26.40	26.58	26.80	27.03	27.25

Temperature Rating

Temperature Coefficient of P _{max}	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

* Due to differences in test methods and equipment, actual measured values may deviate slightly from the above nominal values.

Operating Parameters

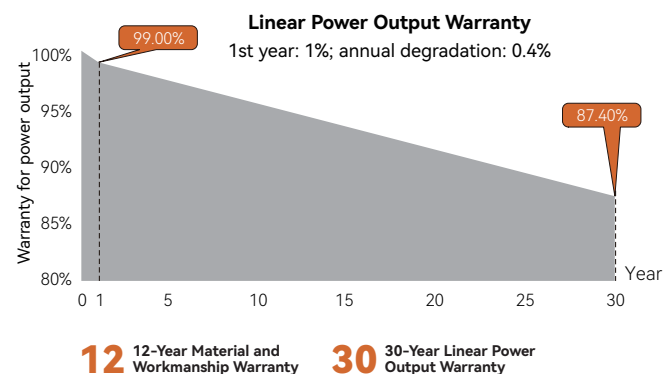
Operating Temperature*	[T _g] ≤70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality coefficient of P _{max}	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%
Fire Class Rating	Class C

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

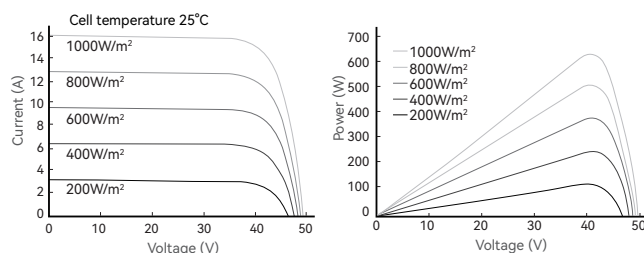
Mechanical Parameters

Cell Type	TNC
Cell Orientation	132 [6×22]
Dimension	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
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	5,400Pa (Positive) / 2,400 Pa (Negative)
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

