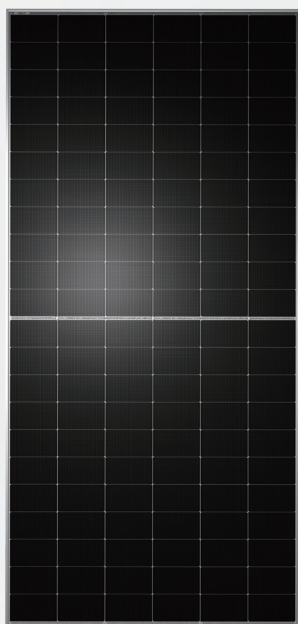


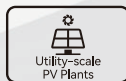
TNC

N-type Half-cell Bifacial Module (66)

TWMNH-66HD



610-630W



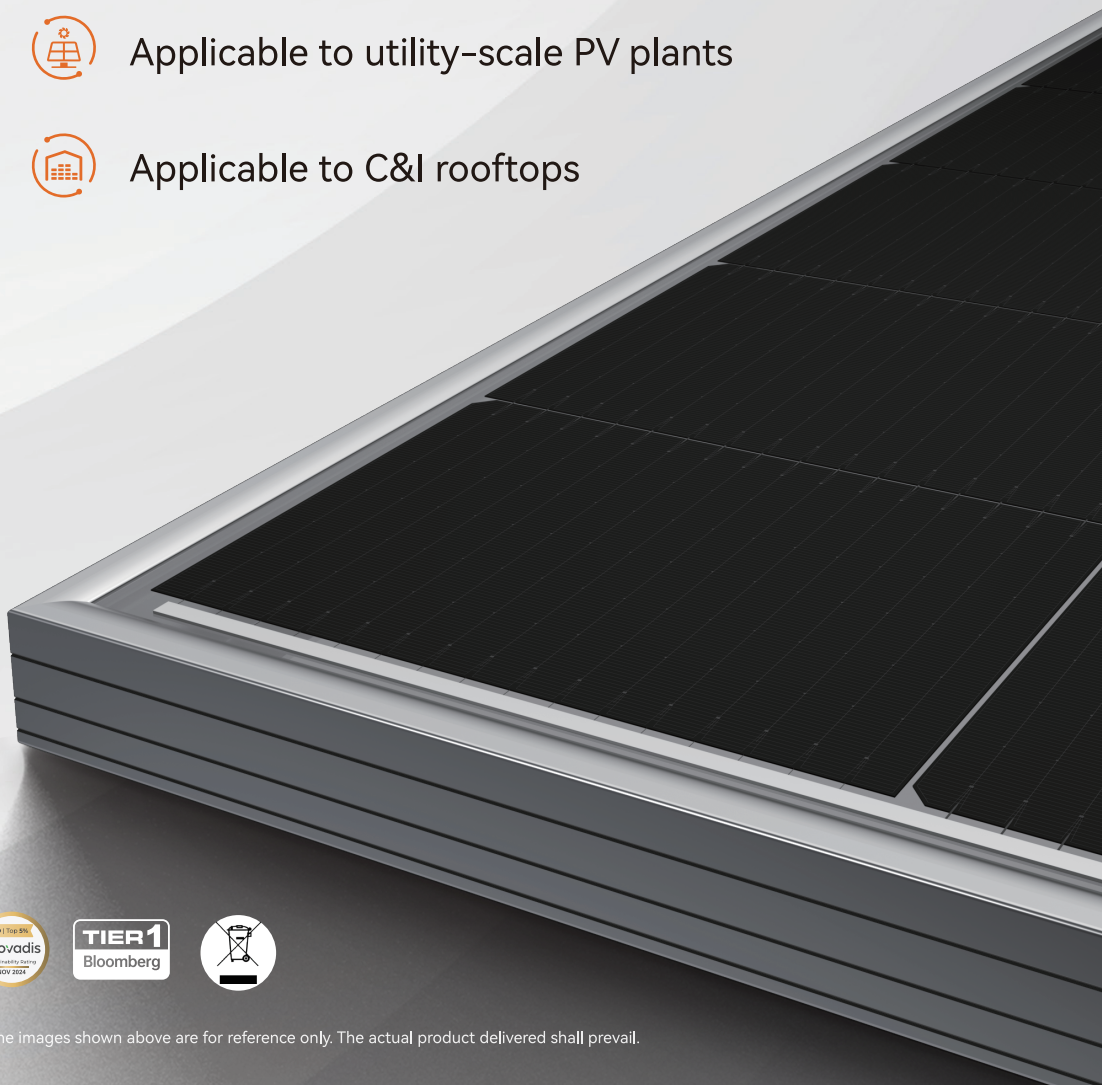
Higher power generation, lower LCOE



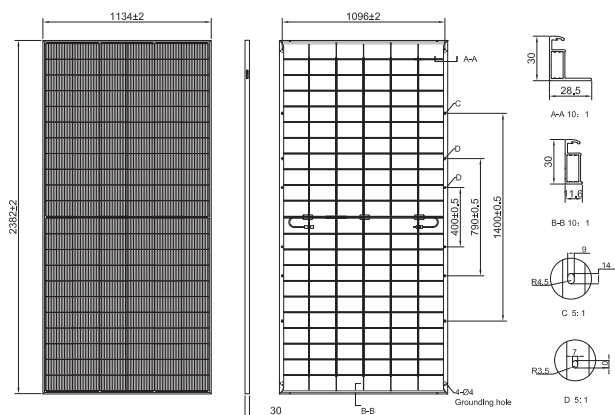
Applicable to utility-scale PV plants



Applicable to C&I rooftops



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-66HDXXX

Maximum Power: P _{max} [W]	610	615	620	625	630
Open Circuit Voltage: V _{oc} [V]	48.70	48.90	49.10	49.30	49.50
Short Circuit Current: I _{sc} [A]	15.94	16.00	16.06	16.12	16.18
Voltage at Maximum Power: V _{mp} [V]	40.48	40.65	40.82	40.96	41.10
Current at Maximum Power: I _{mp} [A]	15.07	15.13	15.19	15.26	15.33
Module Efficiency: η [%]	22.6	22.8	23.0	23.1	23.3

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

Electrical Characteristics (BNPI)

Maximum Power: P _{max} [W]	673.6	678.9	684.6	690.2	695.4
Open Circuit Voltage: V _{oc} [V]	48.70	48.90	49.10	49.30	49.50
Short Circuit Current: I _{sc} [A]	17.60	17.66	17.73	17.80	17.86
Voltage at Maximum Power: V _{mp} [V]	40.48	40.65	40.82	40.96	41.10
Current at Maximum Power: I _{mp} [A]	16.64	16.70	16.77	16.85	16.92

* 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: P _{max} [W]	640	645	651	656	661
	Module Efficiency: η [%]	23.7	23.9	24.1	24.3	24.5
15%	Maximum Power: P _{max} [W]	701	707	713	718	724
	Module Efficiency: η [%]	26.0	26.2	26.4	26.6	26.8
25%	Maximum Power: P _{max} [W]	762	768	775	781	787
	Module Efficiency: η [%]	28.2	28.4	28.7	28.9	29.1

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

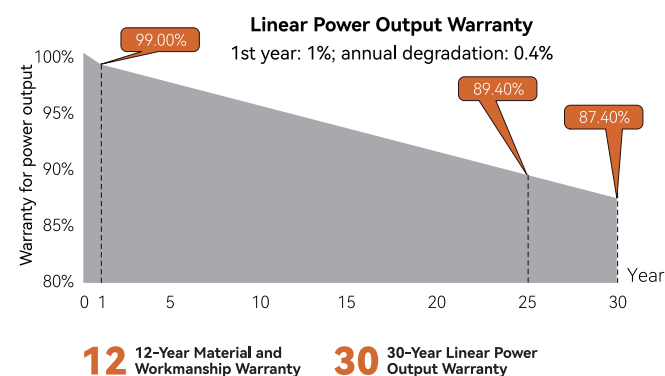
Operating Parameters

Operating Temperature	-40°C~+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 V _{oc}	98±5%
Bifaciality coefficient of I _{sc}	80±5%

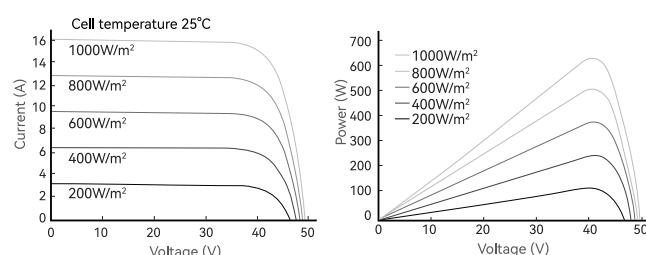
Mechanical Parameters

Cell Type	TNC
Cell Orientation	132 [6×22]
Dimension	2382±2×1134±2×30mm
Weight	32.5kg
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

