

TNC^{2.0}

N-type Half-cell Bifacial Module (66)

TWMNF-66HD



Higher power generation, lower LCOE



Higher power output, higher conversion efficiency

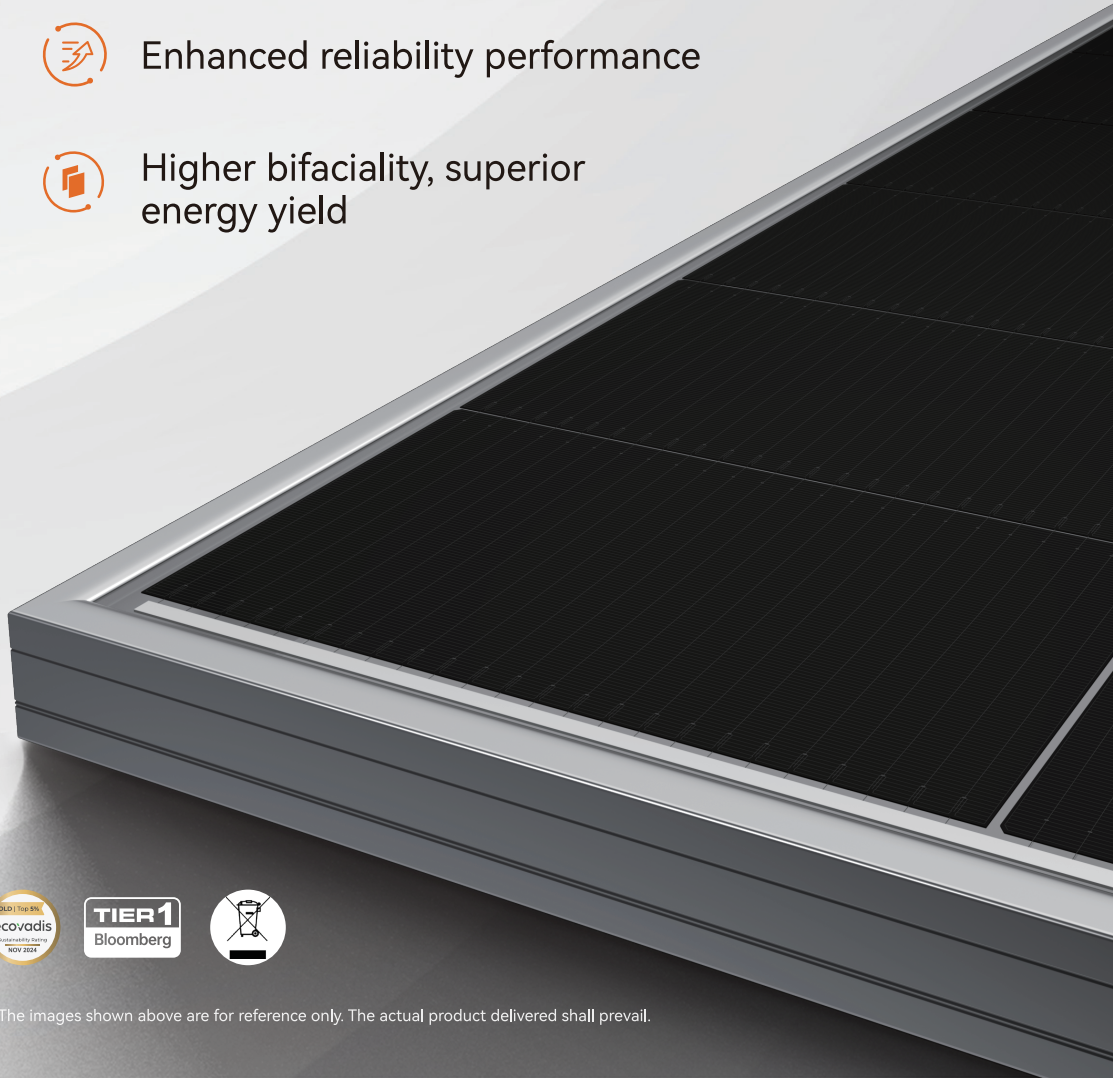
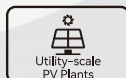


Enhanced reliability performance

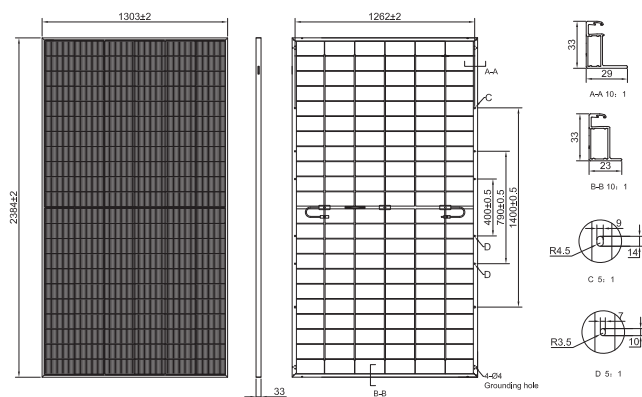


Higher bifaciality, superior energy yield

720-740W



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNF-66HDXXX

Maximum Power: P _{max} [W]	720	725	730	735	740
Open Circuit Voltage: V _{oc} [V]	49.28	49.45	49.55	49.65	49.80
Short Circuit Current: I _{sc} [A]	18.55	18.60	18.68	18.75	18.81
Voltage at Maximum Power: V _{mp} [V]	41.03	41.20	41.37	41.53	41.69
Current at Maximum Power: I _{mp} [A]	17.55	17.60	17.65	17.70	17.75
Module Efficiency: η [%]	23.2	23.3	23.5	23.7	23.8

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

Electrical Characteristics (BNPI)

Maximum Power: P _{max} [W]	794.8	800.5	805.9	811.5	817.1
Open Circuit Voltage: V _{oc} [V]	49.28	49.45	49.55	49.65	49.80
Short Circuit Current: I _{sc} [A]	20.48	20.53	20.62	20.70	20.77
Voltage at Maximum Power: V _{mp} [V]	41.03	41.20	41.37	41.53	41.69
Current at Maximum Power: I _{mp} [A]	19.37	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%

Electrical characteristics with different rear side power gain

5%	Maximum Power: P _{max} [W]	756	761	766	771	777
	Module Efficiency: η [%]	24.3	24.5	24.7	24.8	25.0
15%	Maximum Power: P _{max} [W]	828	833	839	845	851
	Module Efficiency: η [%]	26.7	26.8	27.0	27.2	27.4
25%	Maximum Power: P _{max} [W]	900	906	912	918	925
	Module Efficiency: η [%]	29.0	29.2	29.4	29.6	29.8

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

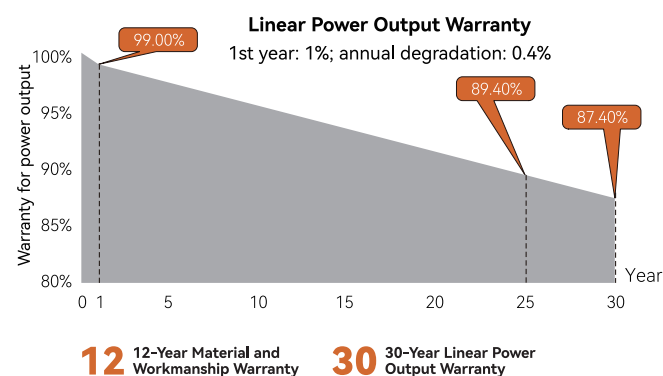
Operating Parameters

Operating Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	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%

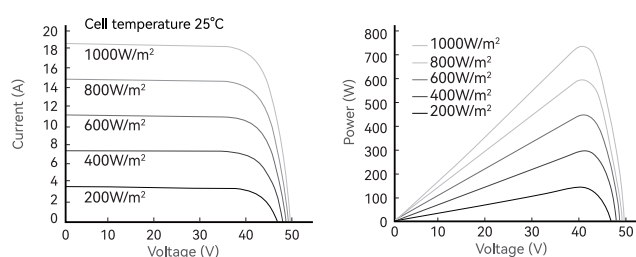
Mechanical Parameters

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

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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