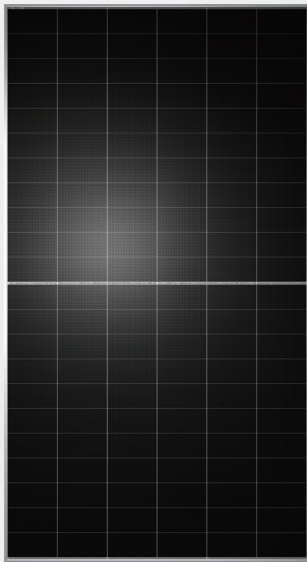


TNC

N-type Half-cell Bifacial Module (66)

TWMNF-66HD

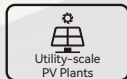


Higher power generation, lower LCOE

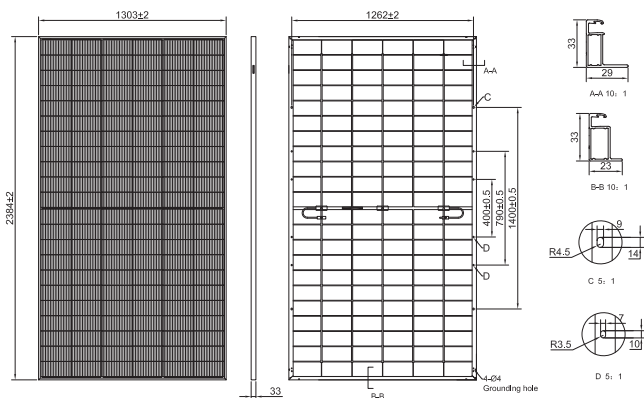


Applicable to utility-scale PV plants

705-725W



Drawings (Unit: mm)



Mechanical Parameters

Cell Type	TNC
Cell Orientation	132 [6×22]
Dimension	2384±2×1303±2×33mm
Weight	37.9kg
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

Electrical Characteristics (STC)

Module type: TWMNF-66HDXXX

Maximum Power: Pmax [W]	705	710	715	720	725
Open Circuit Voltage: Voc [V]	48.77	48.94	49.11	49.28	49.45
Short Circuit Current: Isc [A]	18.40	18.45	18.50	18.55	18.60
Voltage at Maximum Power: Vmp [V]	40.52	40.69	40.86	41.03	41.20
Current at Maximum Power: Imp [A]	17.40	17.45	17.50	17.55	17.60
Module Efficiency: η [%]	22.7	22.9	23.0	23.2	23.3

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

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	778.4	783.7	789.4	794.8	800.5
Open Circuit Voltage: Voc [V]	48.77	48.94	49.11	49.28	49.45
Short Circuit Current: Isc [A]	20.31	20.37	20.42	20.48	20.53
Voltage at Maximum Power: Vmp [V]	40.52	40.69	40.86	41.03	41.20
Current at Maximum Power: Imp [A]	19.21	19.26	19.32	19.37	19.43

* 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: Pmax[W]	740	745	750	756	761
	Module Efficiency: η [%]	23.8	24.0	24.1	24.3	24.5
15%	Maximum Power: Pmax[W]	810	816	822	828	833
	Module Efficiency: η [%]	26.1	26.3	26.5	26.7	26.8
25%	Maximum Power: Pmax[W]	881	887	893	900	906
	Module Efficiency: η [%]	28.4	28.6	28.7	29.0	29.2

Temperature Rating

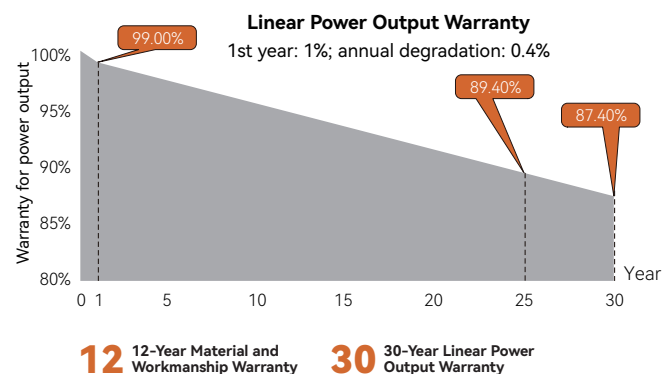
Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

Operating Parameters

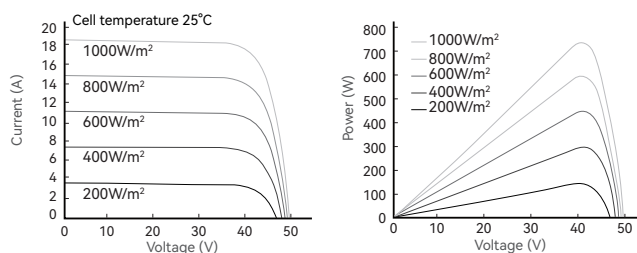
Operating Temperature*	[T ₉₈]≤70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%

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

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



Scan the code for more information