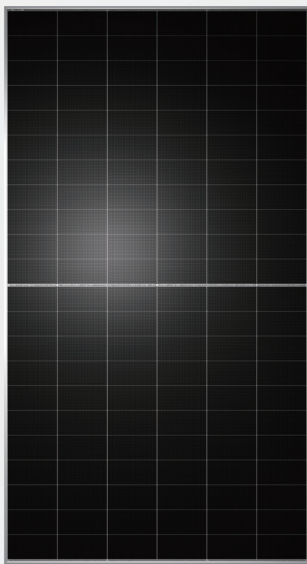


TNC

N-type Half-cell Bifacial Module (66)

TWMNF-66HD

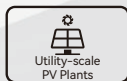


Higher power generation, lower LCOE

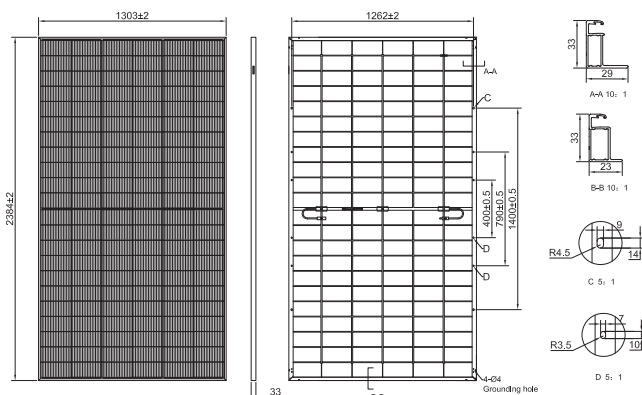


Applicable to utility-scale PV plants

715-735W



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 (Positive) / 2,400 Pa (Negative)
Packaging (Per pallet)	33 pcs
Packaging	594 pcs per 40'HC

Electrical Characteristics (STC)

Module type: TWMNF-66HDXXX

Maximum Power: Pmax [W]	715	720	725	730	735
Open Circuit Voltage: Voc [V]	49.11	49.28	49.45	49.55	49.65
Short Circuit Current: Isc [A]	18.50	18.55	18.60	18.68	18.75
Voltage at Maximum Power: Vmp [V]	40.86	41.03	41.20	41.37	41.53
Current at Maximum Power: Imp [A]	17.50	17.55	17.60	17.65	17.70
Module Efficiency: η [%]	23.0	23.2	23.3	23.5	23.7

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

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	789.4	794.8	800.5	805.9	811.5
Open Circuit Voltage: Voc [V]	49.11	49.28	49.45	49.55	49.65
Short Circuit Current: Isc [A]	20.42	20.48	20.53	20.62	20.70
Voltage at Maximum Power: Vmp [V]	40.86	41.03	41.20	41.37	41.53
Current at Maximum Power: Imp [A]	19.32	19.37	19.43	19.48	19.54

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance: ±3%. The above electrical parameters are for module grading only, not for individual modules.

Electrical characteristics with different rear side power gain

15%	Maximum Power: Pmax [W]	822	828	833	839	845
	Module Efficiency: η [%]	26.5	26.7	26.8	27.0	27.2

Temperature Rating

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

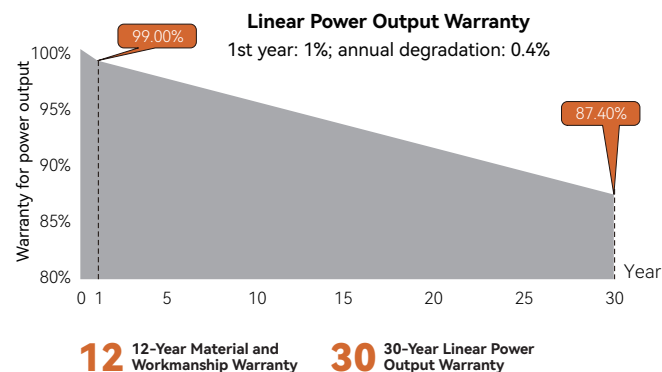
* Due to differences in test methods and equipment, actual measured values may deviate slightly from the above nominal values.

Operating Parameters

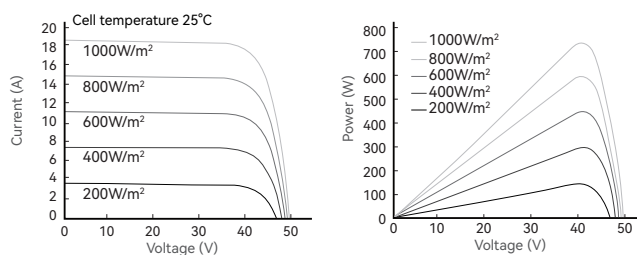
Operating Temperature*	[T _{gg}] ≤ 70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%

*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



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