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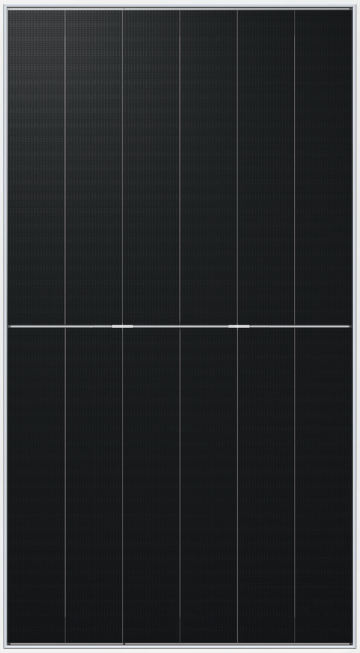
TNC 3.0

N-type Bifacial Module (66)

TWMNF-66QD

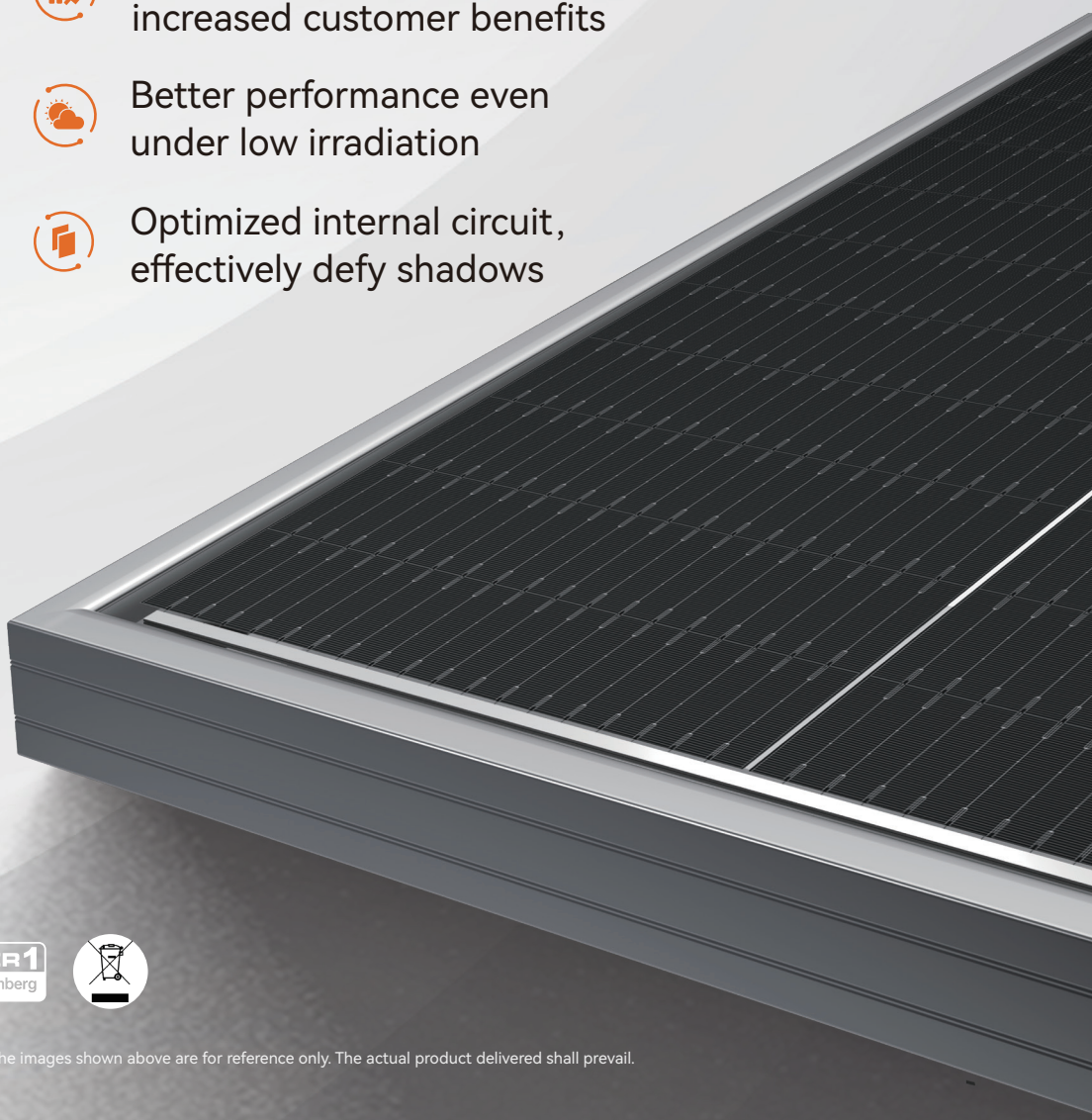


- Lower inner loss, pioneering power and efficiency
- High Bifaciality, increased customer benefits
- Better performance even under low irradiation
- Optimized internal circuit, effectively defy shadows

740-765W

C&I Rooftops

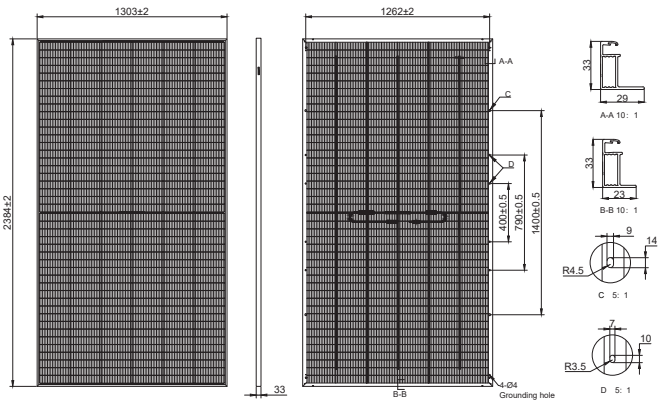
Utility-scale PV Plants



* The images shown above are for reference only. The actual product delivered shall prevail.

TWMNF N-type Bifacial module (66)

Drawings (Unit: mm)



Mechanical Parameters

Cell Type	TNC
Cell Orientation	264 [6×44]
Dimension	2384±2×1303±2×33mm
Weight	37.7 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 mm²
Cable Length	+400 mm, -600 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-66QDXXX						
Maximum Power: Pmax [W]	740	745	750	755	760	765
Open Circuit Voltage: Voc [V]	49.80	49.95	50.10	50.25	50.40	50.55
Short Circuit Current: Isc [A]	18.81	18.87	18.93	18.99	19.05	19.11
Voltage at Maximum Power: Vmp [V]	41.69	41.86	42.02	42.18	42.34	42.50
Current at Maximum Power: Imp [A]	17.75	17.80	17.85	17.90	17.95	18.00
Module Efficiency: η [%]	23.8	24.0	24.1	24.3	24.5	24.6

* STC: Irradiance 1000W/m², Cell temperature 25℃, 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]	820	826	831	837	843	848
Open Circuit Voltage: Voc [V]	49.80	49.95	50.10	50.25	50.40	50.55
Short Circuit Current: Isc [A]	20.85	20.91	20.98	21.05	21.11	21.18
Voltage at Maximum Power: Vmp [V]	41.69	41.86	42.02	42.18	42.34	42.50
Current at Maximum Power: Imp [A]	19.67	19.74	19.78	19.85	19.92	19.96

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25℃, 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]	851	856	862	868	874	879
	Module Efficiency: η [%]	27.4	27.6	27.7	27.9	28.1	28.3

Temperature Rating

Temperature Coefficient of Pmax	-0.26%/℃
Temperature Coefficient of Voc	-0.22%/℃
Temperature Coefficient of Isc	+0.046%/℃

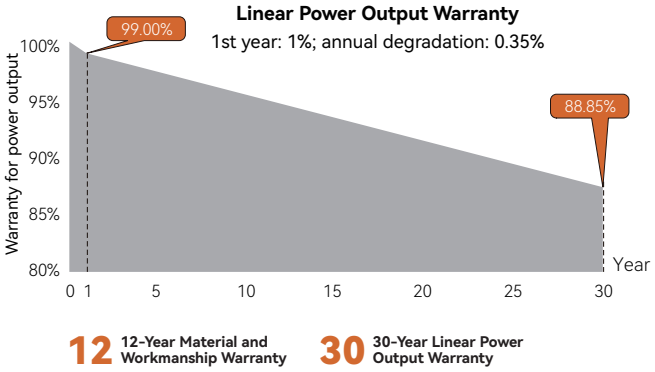
* Due to differences in test methods and equipment, actual measured values may deviate slightly from the above nominal values.

Operating Parameters

Operating Temperature*	[T_{98}]≤70℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	85±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	85±5%

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

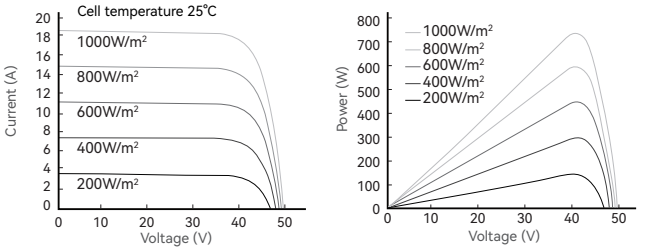
Warranty



12 12-Year Material and Workmanship Warranty

30 30-Year Linear Power Output 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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