





TNOC 3.0

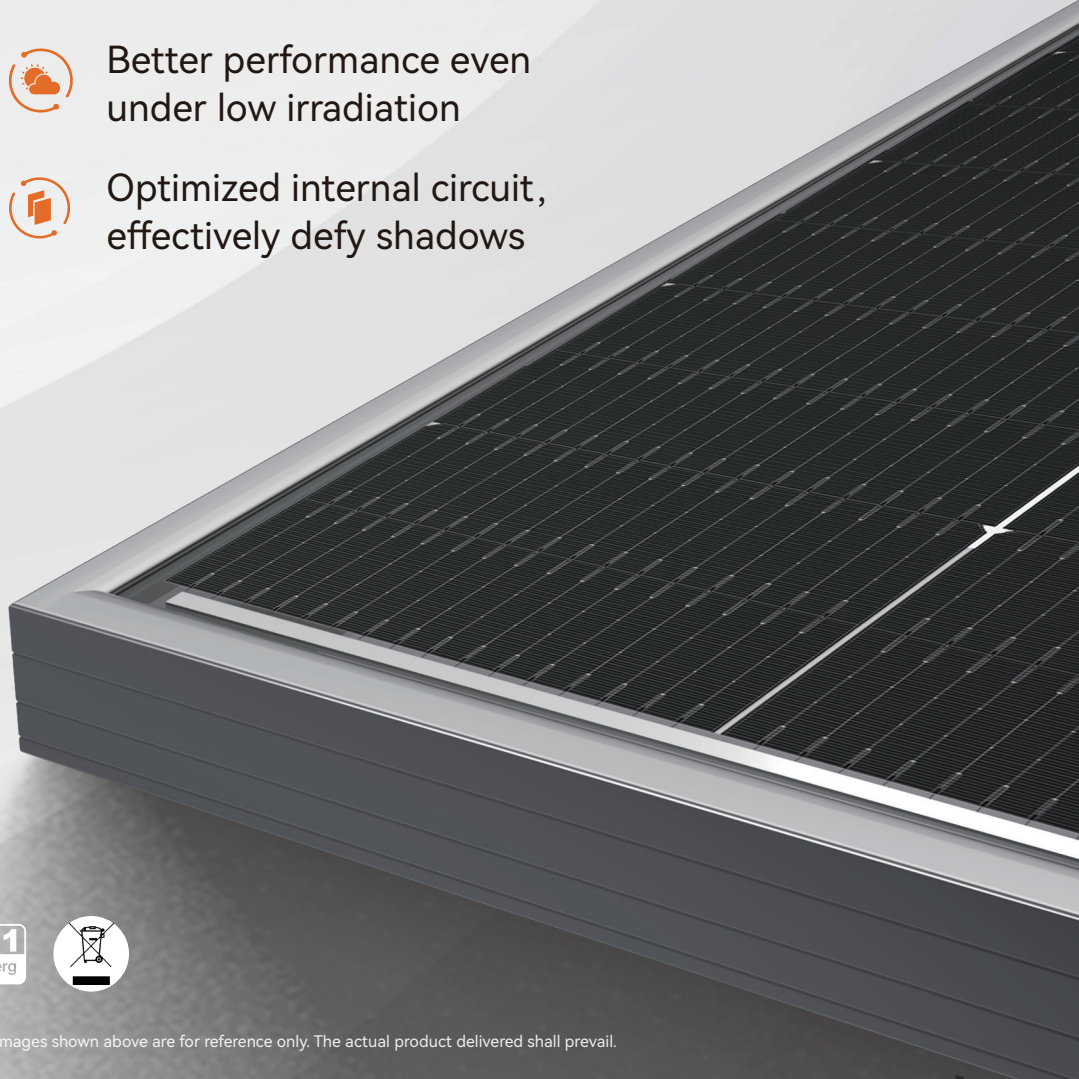
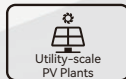
N-type Bifacial Module (66)

TWMNH-66QD

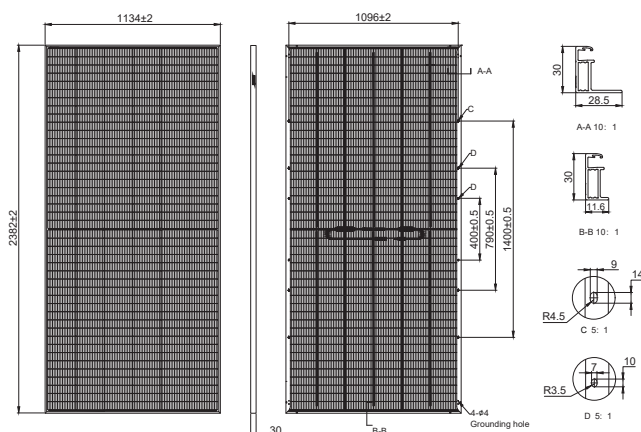


-  Lower inner loss, pioneering power and efficiency
-  High Bifaciality, increased customer benefits
-  Better performance even under low irradiation
-  Optimized internal circuit, effectively defying shadows

645-670W



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-66QDXXX						
Maximum Power: P _{max} [W]	645	650	655	660	665	670
Open Circuit Voltage: V _{oc} [V]	50.06	50.19	50.36	50.52	50.67	50.84
Short Circuit Current: I _{sc} [A]	16.28	16.36	16.43	16.50	16.57	16.64
Voltage at Maximum Power: V _{mp} [V]	41.65	41.81	41.95	42.10	42.25	42.42
Current at Maximum Power: I _{mp} [A]	15.49	15.55	15.62	15.68	15.74	15.80
Module Efficiency: η [%]	23.9	24.1	24.2	24.4	24.6	24.8

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

Electrical Characteristics (BNPI)

Maximum Power: P _{max} [W]	715	721	726	732	737	743
Open Circuit Voltage: V _{oc} [V]	50.06	50.19	50.36	50.52	50.67	50.84
Short Circuit Current: I _{sc} [A]	18.04	18.13	18.21	18.29	18.36	18.44
Voltage at Maximum Power: V _{mp} [V]	41.65	41.81	41.95	42.10	42.25	42.42
Current at Maximum Power: I _{mp} [A]	17.17	17.25	17.31	17.39	17.45	17.52

* 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]	677	682	687	693	698	703
	Module Efficiency: η [%]	25.1	25.2	25.4	25.7	25.8	26.0
15%	Maximum Power: P _{max} [W]	741	747	753	759	764	770
	Module Efficiency: η [%]	27.4	27.7	27.9	28.1	28.3	28.5
25%	Maximum Power: P _{max} [W]	806	812	818	825	831	837
	Module Efficiency: η [%]	29.8	30.1	30.3	30.5	30.8	31.0

Temperature Rating

Temperature Coefficient of P _{max}	-0.26%/°C
Temperature Coefficient of V _{oc}	-0.22%/°C
Temperature Coefficient of I _{sc}	+0.046%/°C

Operating Parameters

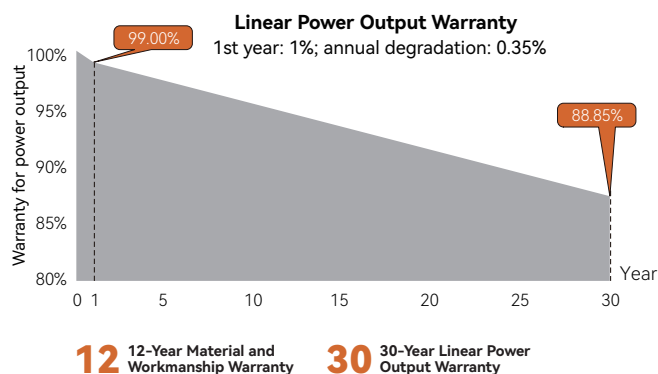
Operating Temperature*	[T ₉₈]≤70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of P _{max}	85±5%
Bifaciality coefficient of V _{oc}	98±5%
Bifaciality coefficient of I _{sc}	85±5%

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

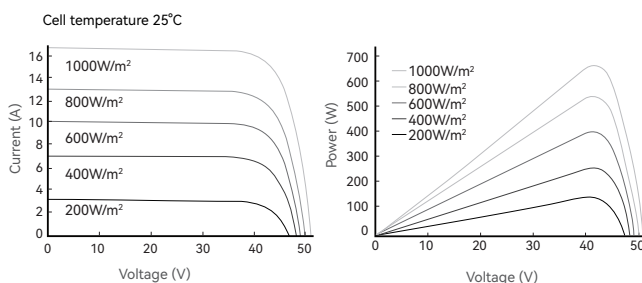
Mechanical Parameters

Cell Type	TNC
Cell Orientation	264 [6×44]
Dimension	2382±2×1134±2×30mm
Weight	32.7 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	4.0mm ²
Cable Length	+400 mm, -600 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



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