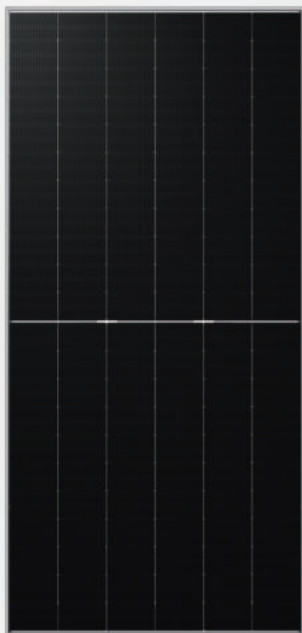


TNC 3.0

N-type Bifacial Module (66)

TWMNH-66QD



Lower inner loss,
pioneering power and efficiency



High Bifaciality,
increased customer benefits

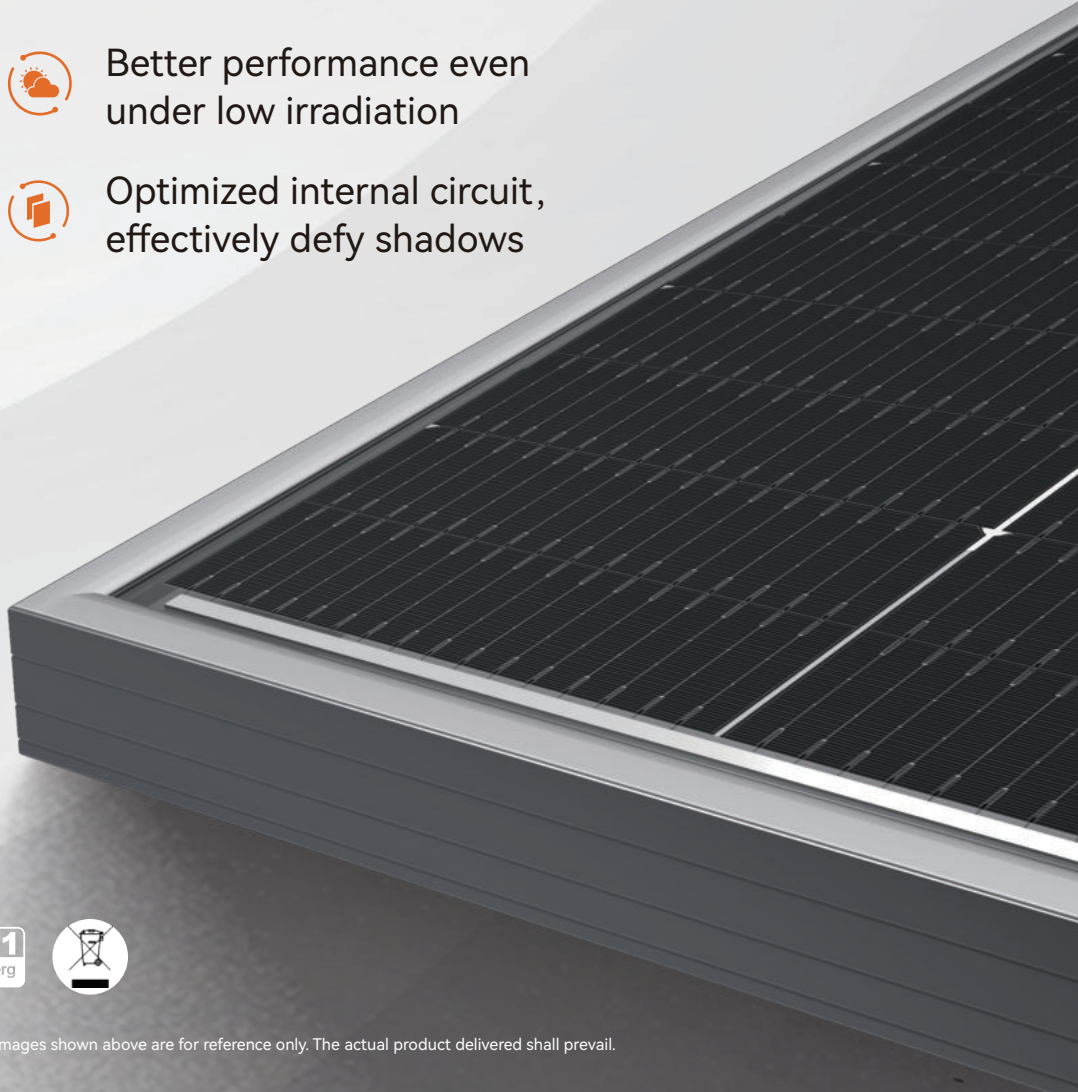
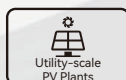


Better performance even
under low irradiation

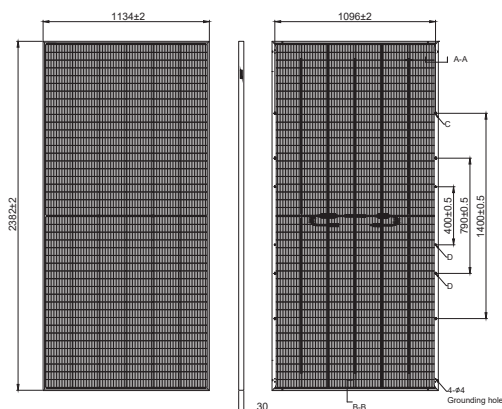


Optimized internal circuit,
effectively defy shadows

615-670W



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type:	TWMNH-66 QD615	TWMNH-66 QD620	TWMNH-66 QD625	TWMNH-66 QD630	TWMNH-66 QD635	TWMNH-66 QD640
Maximum Power: Pmax [W]	615	620	625	630	635	640
Open Circuit Voltage: Voc [V]	49.33	49.45	49.57	49.69	49.81	49.93
Short Circuit Current: Isc [A]	15.89	15.95	16.01	16.07	16.13	16.20
Voltage at Maximum Power: Vmp [V]	40.65	40.82	40.99	41.16	41.32	41.48
Current at Maximum Power: Imp [A]	15.13	15.19	15.25	15.31	15.37	15.43
Module Efficiency: η [%]	22.77	22.95	23.14	23.32	23.51	23.69

* STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	682	687	693	699	704	710
Open Circuit Voltage: Voc [V]	49.33	49.45	49.57	49.69	49.81	49.93
Short Circuit Current: Isc [A]	17.61	17.68	17.74	17.81	17.88	17.95
Voltage at Maximum Power: Vmp [V]	40.65	40.82	40.99	41.16	41.32	41.48
Current at Maximum Power: Imp [A]	16.78	16.83	16.91	16.99	17.04	17.12

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BSI)

Short Circuit Current: Isc [A]	19.51	19.58	19.65	19.73	19.81	19.88
--------------------------------	-------	-------	-------	-------	-------	-------

* BSI: Front side irradiance 1000W/m², Rear side irradiance 300W/m², Cell Temperature=25°C, AM=1.5, Isc measurement tolerance: ±5%

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	645	651	656	661	666	672
	Module Efficiency: η [%]	23.88	24.10	24.29	24.47	24.66	24.88
15%	Maximum Power: Pmax[W]	707	713	718	724	730	736
	Module Efficiency: η [%]	26.17	26.40	26.58	26.80	27.03	27.25
25%	Maximum Power: Pmax[W]	768	775	781	787	793	800
	Module Efficiency: η [%]	28.43	28.69	28.91	29.14	29.36	29.62

Temperature Rating

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

Operating Parameters

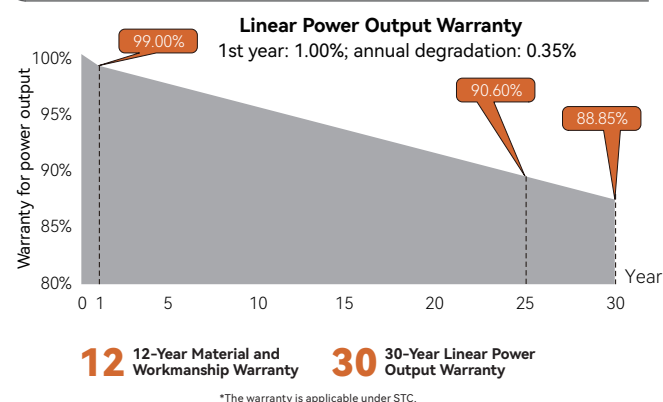
Operating Temperature*	[T ₉₅]≤70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	85±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	85±5%
Fire Class Rating	Class C

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

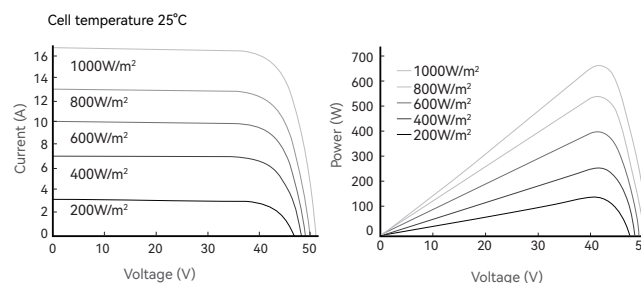
Mechanical Parameters

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 black frame
Junction Box	IP68, 3 diodes
Cable	4.0 mm ²
Cable Length	+400mm,-600mm or ±1400mm,length can be customized
Connector	TW-PVCON-01,TW-PVCON-02(Tongwei Solar) PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR(Staubli) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy(Staubli) PV-ZH202B(Zhejiang Zhonghuan Sunter)
Maximum Static Test Load	5400Pa (positive) / 2400Pa (negative)
Packaging (Per pallet)	36 pcs
Packaging	720 pcs per 40'HC

Warranty



Curve



Certifications

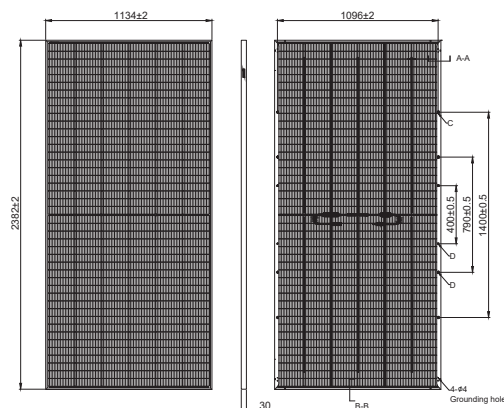
Quality Management System and Product Certification

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 60068-2-68



Scan the code for more information

Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type:	TWMNH-66 QD645	TWMNH-66 QD650	TWMNH-66 QD655	TWMNH-66 QD660	TWMNH-66 QD665	TWMNH-66 QD670
Maximum Power: Pmax [W]	645	650	655	660	665	670
Open Circuit Voltage: Voc [V]	50.06	50.19	50.36	50.52	50.67	50.84
Short Circuit Current: Isc [A]	16.28	16.36	16.43	16.50	16.57	16.64
Voltage at Maximum Power: Vmp [V]	41.65	41.81	41.95	42.10	42.25	42.42
Current at Maximum Power: Imp [A]	15.49	15.55	15.62	15.68	15.74	15.80
Module Efficiency: η [%]	23.88	24.06	24.25	24.43	24.62	24.80

* STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5, Power measurement tolerance: ±3%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	715	721	726	732	737	743
Open Circuit Voltage: Voc [V]	50.06	50.19	50.36	50.52	50.67	50.84
Short Circuit Current: Isc [A]	18.04	18.13	18.21	18.29	18.36	18.44
Voltage at Maximum Power: Vmp [V]	41.65	41.81	41.95	42.10	42.25	42.42
Current at Maximum Power: Imp [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%, Voc measurement tolerance: ±5%, Isc measurement tolerance: ±5%

Electrical Characteristics (BSI)

Short Circuit Current: Isc [A]	19.98	20.08	20.17	20.26	20.34	20.43
--------------------------------	-------	-------	-------	-------	-------	-------

* BSI: Front side irradiance 1000W/m², Rear side irradiance 300W/m², Cell Temperature=25°C, AM=1.5, Isc measurement tolerance: ±5%

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	677	682	687	693	698	703
	Module Efficiency: η [%]	25.06	25.25	25.43	25.66	25.84	26.03
15%	Maximum Power: Pmax[W]	741	747	753	759	764	770
	Module Efficiency: η [%]	27.43	27.65	27.88	28.10	28.28	28.51
25%	Maximum Power: Pmax[W]	806	812	818	825	831	837
	Module Efficiency: η [%]	29.84	30.06	30.28	30.54	30.76	30.99

Temperature Rating

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

Operating Parameters

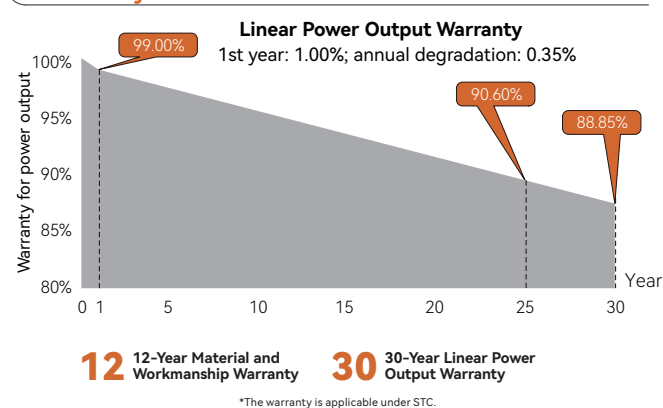
Operating Temperature*	[T _g]=70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	85±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	85±5%
Fire Class Rating	Class C

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

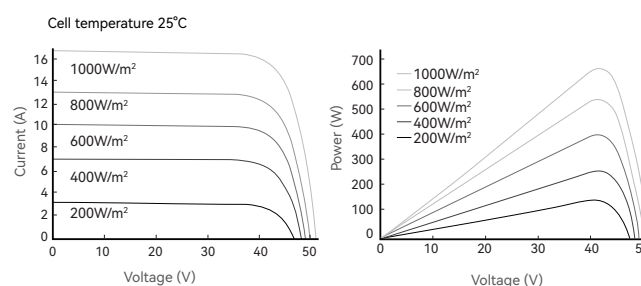
Mechanical Parameters

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 black frame
Junction Box	IP68, 3 diodes
Cable	4.0 mm ²
Cable Length	+400mm,-600mm or ±1400mm,length can be customized
Connector	TW-PVCON-01,TW-PVCON-02(Tongwei Solar) PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR(Staubli) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy(Staubli) PV-ZH202B(Zhejiang Zhonghuan Sunter)
Maximum Static Test Load	5400Pa (positive) / 2400Pa (negative)
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 60068-2-68



Scan the code for more information