



High Power Output
Low LCOE



Maximum Power
640W



TWMNH

N-type Half-cell
Bifacial Module (66)

66HD605-640W

Tongwei Co., Ltd.
<https://en.tongwei.cn/>



TIER 1
Bloomberg
NEW ENERGY FINANCE

A white icon of a building with solar panels on the roof.
Commercial
Rooftop

A white icon of a solar panel array.
Utility-scale
PV Plants

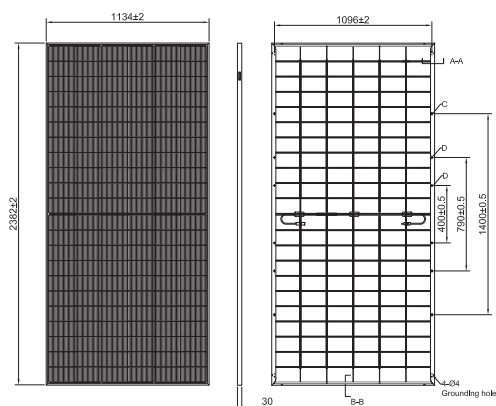
12
YEAR
Materials
Warranty

30
YEAR
Power
Warranty



Learn More

Drawings (Unit: mm)



Electrical characteristics (STC)

Module type:	TWMNH-66 HD605	TWMNH-66 HD610	TWMNH-66 HD615	TWMNH-66 HD620	TWMNH-66 HD625
Maximum Power: Pmax [W]	605	610	615	620	625
Open Circuit Voltage: Voc [V]	48.50	48.70	48.90	49.10	49.30
Short Circuit Current: Isc [A]	15.88	15.94	16.00	16.06	16.12
Voltage at Maximum Power: Vmp [V]	40.31	40.48	40.65	40.82	40.96
Current at Maximum Power: Imp [A]	15.01	15.07	15.13	15.19	15.26
Module Efficiency: η [%]	22.4	22.6	22.8	23.0	23.1

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

Electrical characteristics (BNPI)

Maximum Power: Pmax [W]	667.9	673.6	678.9	684.6	690.2
Open Circuit Voltage: Voc [V]	48.50	48.70	48.90	49.10	49.30
Short Circuit Current: Isc [A]	17.53	17.60	17.66	17.73	17.80
Voltage at Maximum Power: Vmp [V]	40.31	40.48	40.65	40.82	40.96
Current at Maximum Power: Imp [A]	16.57	16.64	16.70	16.77	16.85

* 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]	635	640	645	651	656
	Module Efficiency: η [%]	23.5	23.7	23.9	24.1	24.3
15%	Maximum Power: Pmax[W]	695	701	707	713	718
	Module Efficiency: η [%]	25.7	26.0	26.2	26.4	26.6
25%	Maximum Power: Pmax[W]	756	762	768	775	781
	Module Efficiency: η [%]	28.0	28.2	28.4	28.7	28.9

Temperature rating

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

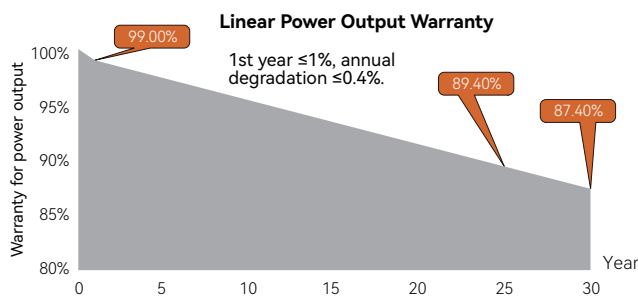
Operating parameters

Operating Temperature	-40°C~+70°C
Module [T _a] max	70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Selection Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%
Fire Class Rating	Class C

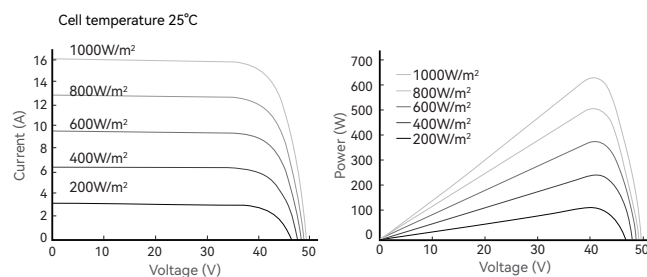
Mechanical parameters

Cell Type	TNC2.0 (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimensions	2382±2×1134±2×30mm
Weight	32.5kg
Front Glass	2.0mm AR coating semi tempered glass
Rear Glass	2.0mm semi tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3diodes
Cable	4.0mm ²
Cable length	+400mm, -200mm or ±1400mm, length can be customized
Connector	TW-PVCON-01(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)
Max static test load	Front side 5400Pa, Rear side 2400Pa
Per pallet	36pcs
Packaging	720pcs per 40' HC

Warranty



I-V Curve



Certifications

Quality Management System and Product Certification

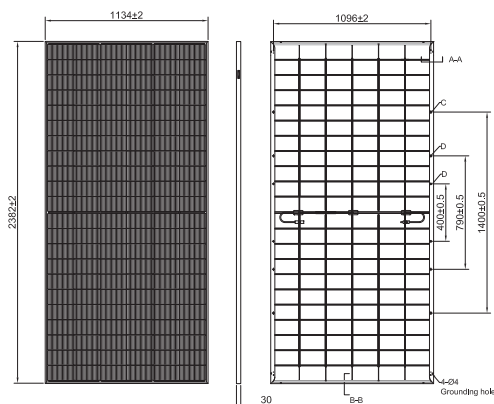
ISO 9001: 2015 / Quality management systems
ISO 14001: 2015 / Environmental management systems
ISO 45001: 2018 / Occupational health and safety management systems
ISO 50001: 2018 / Energy management systems
IEC 62941: 2019 / Quality system for PV module manufacturing
IEC 61215(2021) / IEC 61730(2023)



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Statement: With technological process and product update, there maybe deviation between the technical parameters of Tongwei's module products and the technical parameters contained in the specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar. (TNC2.0-AU-20250523) Made in China

Drawings (Unit: mm)



Electrical characteristics (STC)

Module type:	TWMNH-66 HD630	TWMNH-66 HD635	TWMNH-66 HD640
Maximum Power: Pmax [W]	630	635	640
Open Circuit Voltage: Voc [V]	49.50	49.60	49.75
Short Circuit Current: Isc [A]	16.18	16.26	16.33
Voltage at Maximum Power: Vmp [V]	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	15.33	15.40	15.47
Module Efficiency: η [%]	23.3	23.5	23.7

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

Electrical characteristics (BNPI)

Maximum Power: Pmax [W]	695.4	701.1	706.8
Open Circuit Voltage: Voc [V]	49.50	49.60	49.75
Short Circuit Current: Isc [A]	17.86	17.95	18.03
Voltage at Maximum Power: Vmp [V]	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	16.92	17.00	17.08

* 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]	661	666	672
	Module Efficiency: η [%]	24.5	24.7	24.9
15%	Maximum Power: Pmax[W]	724	730	736
	Module Efficiency: η [%]	26.8	27.0	27.2
25%	Maximum Power: Pmax[W]	787	793	800
	Module Efficiency: η [%]	29.1	29.4	29.6

Temperature rating

Temperature Coefficient of Pmax	-0.28%/°C
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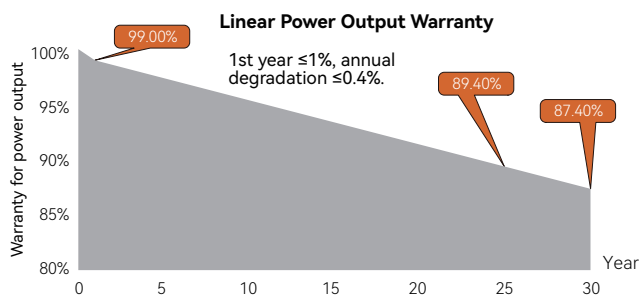
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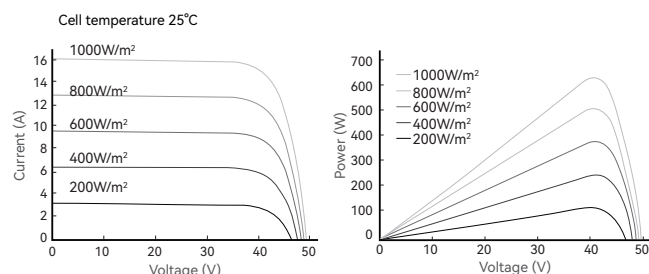
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