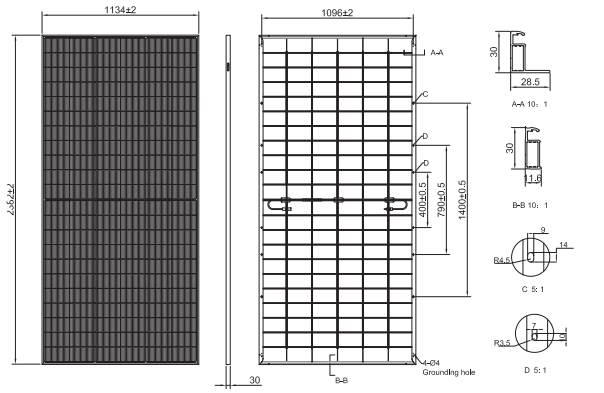

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TWMNH N-type Half-cell Bifacial Module (66)

66HD620-640W

Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-66HDXXX					
Maximum Power: Pmax [W]	620	625	630	635	640
Open Circuit Voltage: Voc [V]	49.10	49.30	49.50	49.60	49.75
Short Circuit Current: Isc [A]	16.06	16.12	16.18	16.26	16.33
Voltage at Maximum Power: Vmp [V]	40.82	40.96	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	15.19	15.26	15.33	15.40	15.47
Module Efficiency: η [%]	23.0	23.1	23.3	23.5	23.7

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

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	684.6	690.2	695.4	701.1	706.8
Open Circuit Voltage: Voc [V]	49.10	49.30	49.50	49.60	49.75
Short Circuit Current: Isc [A]	17.73	17.80	17.86	17.95	18.03
Voltage at Maximum Power: Vmp [V]	40.82	40.96	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	16.77	16.85	16.92	17.00	17.08

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

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	651	656	661	666	672
	Module Efficiency: η [%]	24.1	24.3	24.5	24.7	24.9
15%	Maximum Power: Pmax[W]	713	718	724	730	736
	Module Efficiency: η [%]	26.4	26.6	26.8	27.0	27.2
25%	Maximum Power: Pmax[W]	775	781	787	793	800
	Module Efficiency: η [%]	28.7	28.9	29.1	29.4	29.6

Temperature Rating

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

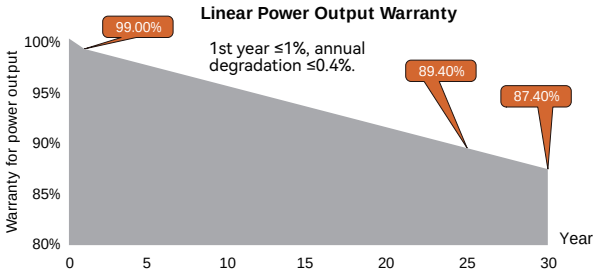
Operating Parameters

Operating Temperature	-40℃~+70℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%

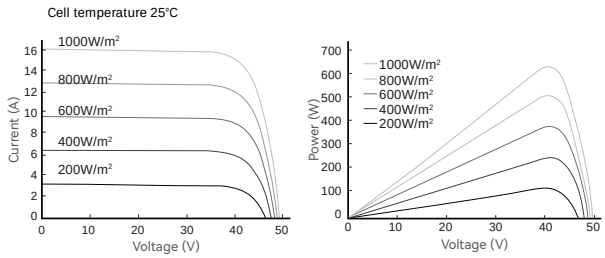
Mechanical Parameters

Cell Type	TNC2.0 (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimensions	2382±2×1134±2×30mm
Weight	32.2kg
Front Glass	2.0mm AR coating semi tempered glass
Rear Glass	2.0mm semi tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm²
Cable length	+400mm,-200mm or ±1400mm,length can be customized
Max static test load	Front side 5400Pa,Rear side 2400Pa
Per pallet	36 pcs
Packaging	720 pcs per 40'HC

Linear 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/Occupation 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), IEC 62804(PID),
IEC 61701(Salt), IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

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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. (TNC2.0-20250608)